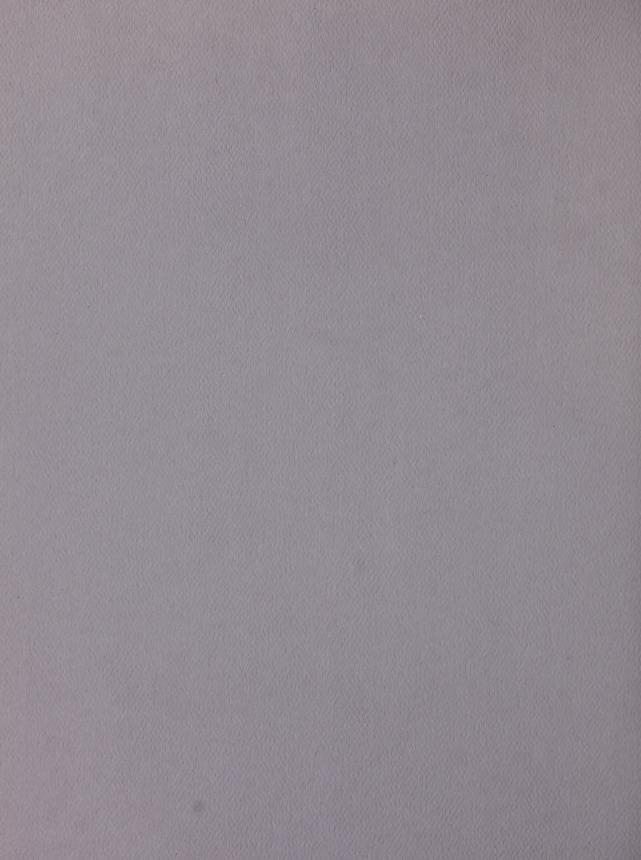
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Parasites of the Parasites of Vertebrates of Canada

A Guide to the Animal Parasites of Albertan Fishes





A GUIDE TO THE ANIMAL PARASITES OF ALBERTAN FISHES

Published by:

Alberta Agriculture, Food and Rural Development Information Packaging Centre 7000 - 113 Street Edmonton, Alberta T6H 5T6

Production Editor: Chris Kaulbars Cover Design: John Gillmore

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ISBN 0-7732-6148-6

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INTRODUCTION

From the outset, it should be noted that the title of this compendium is a misnomer. Initially, the thoughts were simply to compile records, originating in Alberta, of the animal parasites of fishes. However, it became clear that such a compilation would tend to give an impression of a depauperate fauna, when in fact, large numbers of parasites do and could potentially infect these fish species. Therefore, it was decided that all Canadian reports of parasites associated with Albertan fish species would be included. It is obvious that with the advent of water diversions, hydroelectric developments and fish transfaunations through artificial stocking of water bodies that information on potential parasitism necessary and this information is made available with this extended treatment.

This guide is composed of two main sections: one giving Parasite/Host listings and the other giving Host/Parasite listings; also included are indices for the parasites and for the hosts, followed by a list of references.

The format adopted for the Parasite/Host listings include: 1) the currently accepted scientific name of the parasite, including the author and date; 2) synonyms, if included, are referrable only to those used in the Canadian context; 3) sites where the parasite might be found, in or on the host(s); 4) an alphabetical listing of all hosts, with the numbers following each, representing the numbered references which are cited as records; 5) the geographical distribution of the parasite is indicated by the use of abbreviations adopted by Canada Post for provinces and territories: AB = Alberta, BC = British Columbia, MB = Manitoba, NB = New Brunswick, NF = Newfoundland, NS = Nova Scotia, NT = Northwest Territories, ON

= Ontario, PE = Prince Edward Island, QC = Ouebec, SK = Saskatchewan, and YT = Additional abbreviation Yukon Territory. used are: AR = Arctic, CA = Canada, CCA = central Canada, EXP = experimentally induced infections, HBD = Hudson Bay drainage (within Manitoba and Saskatchewan), LB = Labrador (as distinct from insular Newfoundland), SSR = South Saskatchewan River, WCA = western Canada and 6) records which are specific citations on the parasites. In instances where an Albertan record is indicated, the citation is in "bold print" and the locality in the province (if specified) is included.

The Host/Parasite list is organized according to the phylogenetic relationships of the host taxa. At the generic level, these taxa are listed alphabetically. The scientific and common names of the fish species follow Robins et al (1991) and the names of the higher categories and their phylogenetic arrangment follow Nelson (1984). Nelson and Paetz (1992) list 59 species of fishes in the Albertan fauna. Three of these species are obviously exotics. i.e. two poeciilids and a cichlid. Of the remaining 56, no parasites have been reported from Canadian populations of Hybognathus argyritis, Notropis blennius, Oncorhynchus aguabonita, nor from those of Cottus confusus. The splake (Salvelinus fontinalis x Salvelinus namaycush) is not listed by Nelson and Paetz (loc. cit.) as part of the Albertan fauna. However, the hybrid is included in this since a larval tapeworm, Diphyllobothrium sp. has been recorded from this host in Alberta (Mudry and Anderson 1977); with this inclusion, 53 taxa of host species are considered. The listing of the major groups of parasites follows a

phylogenetic sequence with the parasitic taxa in each group listed alphabetically.

In this guide, 329 specifically identified taxa of parasites and 104 others (with varying degrees of precision in identification) are considered. It should be noted that, upon further examination, many included in the latter group could be assigned to specifically named taxa, thereby reducing the numbers of what appears to be a very large parasite fauna. The total of 433 represents the information obtained and collated from Canada-wide reports of parasites from the 59-60 species which constitute the fish fauna of Alberta.

The group-by-group (Canada vs. Alberta) totals of the parasites can be seen from the following: Cnidaria (1-1; 0-0), Monogenea (81-13; 7-4), Digenea (79-26; 15-5), Cestoidea (51-20;20-12), Nematoda (42-22; 12-6), Acanthocephala (22-6; 9-2), Annelida (16-5; 4-0), Mollusca (7-3; 1-1), Branchiura (16-5; 1-0), Copepoda (25-5; 5-3), and Arachnoidea (0-2; 0-0). In this listing (using the Monogenea as an example), the first set of figures (i.e. 81-13) indicates the Canada-wide reports with the "81" representing the specifically identified taxa and the "13" representing those with other levels of identification. The second set (i.e. 7-4) represents the equivalent values for reports originating in Alberta.

Throughout this work, larval stages of the parasite are designated with an asterisk (*) preceding the name; a name preceded by two asterisks (**) indicates that both larval and adult stages are included; a name without any special designation is that of the adult form of the parasite.

PARASITE-HOST LIST

KINGDOM ANIMALIA

SUBCLASS POLYONCHOINA

SUBKINGDOM EUMETAZOA

ORDER DACTYLOGYRIDEA

PHYLUM CNIDARIA

SUBORDER DACTYLOGYRINEA

CLASS HYDROZOA

FAMILY DACTYLOGYRIDAE

ORDER TRACHYLINA

SUBFAMILY ANCYROCEPHALINAE

SUBORDER NARCOMEDUSAE

Aethycteron malleus (Mueller, 1938) Suriano and Beverley-Burton, 1982

FAMILY CUNINIDAE

Synonyms: Urocleidus malleus (Mueller, 1938) Mizelle and Hughes, 1938; Cleidodiscus malleus Mueller, 1938

Polypodium hydriforme Ussov, 1885

Site: gills

Site: ova

Host: Percina caprodes
Distribution: ON

Host: Acipenser fulvescens
Distribution: MB, SK

Records: Dechtiar 1972a; Dechtiar 1972b; Dechtiar & Christie 1988;

Records: Choudhury & Dick 1991; Dick et al. 1991; Choudhury & Dick 1993

Dechtiar et al. 1988

Polypodium sp.

Aethycteron sp.

Site: ova

Site: gills

Host: Acipenser fulvescens
Distribution: MB, SK

Host: Etheostoma exile
Distribution: ON

Record: Dick et al. 1991

Record: Dechtiar & Christie 1988

PHYLUM PLATYHELMINTHES

Cleidodiscus brachus Mueller, 1938

CLASS MONOGENEA

Synonym: *Urocleidus brachus* (Mueller, 1938) Price, 1967

Site: gills

Hosts: Couesius plumbeus (3)

Margariscus margarita (4, 5, 6)

Phoxinus eos (4)

Phoxinus neogaeus (1)

Platygobio gracilis (2)

Platygobio gracilis (2)
Distribution: AB, LB, NB, ON
Records: 1) Dechtiar 1972a (ON);
2) Arai & Chien 1973 (AB - Milk
River, Oldman River, St. Mary River);
3) Threlfall 1974 (LB); 4) Cone 1980
(NB); 5) Dechtiar et al. 1988 (ON);
6) Dechtiar et al. 1989 (ON)

Cleidodiscus sp.

Site: gills

Hosts: Perca flavescens (1, 2)
Percopsis omiscomaycus (2)
Stizostedion vitreum (3, 4)

Distribution: ON

Records: 1) Mizelle & Donahue 1944; 2) Dechtiar 1972b; 3) Anthony 1976;

4) Anthony 1978b

Ligictaluridus posthon Klassen, Beverley-Burton and Dechtiar, 1985

Site: gills

Host: Noturus flavus
Distribution: ON

Record: Klassen et al. 1985

Ligictaluridus pricei (Mueller, 1936) Beverley-Burton, 1984

Synonym: *Cleidodiscus pricei* Mueller, 1936

Site: gills

Host: *Noturus flavus*Distribution: ON

Records: Dechtiar 1972b; Dechtiar & Christie 1988; Dechtiar et al. 1988

Onchocleidus chautauquensis (Mueller, 1938) Murith and Beverley-Burton, 1984

Synonym: *Urocleidus chautauquensis* (Mueller, 1938) Mizelle and Hughes, 1938

Site: gills

Host: Perca flavescens
Distribution: ON

Record: Molnar et al. 1974

Urocleidus aculeatus (Van Cleave and Mueller, 1932) Mueller, 1934

Synonym: Cleidodiscus aculeatus (Van Cleave and Mueller, 1932) Mizelle and Regensberg, 1945

Site: gills

Hosts: Perca flavescens (4, 5)
Stizostedion canadense (1, 2)
Stizostedion vitreum (1, 2, 3, 4, 6,

7, 8, 9, 10) Distribution:

Distribution: MB, ON Records: 1) Dechtiar 1972a (ON);

2) Dechtiar 1972b (ON); 3) Anthony 1976 (ON); 4) Anthony 1978b (ON); 5) Suriano & Beverley-Burton 1981 (ON);

6) Poole & Dick 1985 (MB); 7) Dechtiar & Christie 1988 (ON); 8) Dechtiar et al.1988 (ON); 9) Dechtiar & Lawrie 1988 (ON); 10) Dechtiar & Nepszy 1988 (ON)

Urocleidus adspectus Mueller, 1936

Synonym: Cleidodiscus adspectus

Mueller, 1936

Includes: *Cleidodiscus* sp. of Mizelle and Donahue (1944)

Site: gills

Hosts: Etheostoma exile (10)

Perca flavescens (1, 2, 3, 4, 5, 6,
7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,
30)

Percopsis omiscomaycus (28) Stizostedion vitreum (28)

Distribution: AB, MB, NB, ON Records: 1) Mizelle & Donahue 1944 (ON); 2) Tedla & Fernando 1969a (ON); 3) Tedla 1969 (ON); 4) Tedla & Fernando 1970a (ON); 5) Hanek 1971 (ON); 6) Tedla & Fernando 1972 (ON); 7) Hanek & Fernando 1972a (ON); 8) Hanek & Fernando 1972b (ON); 9) Dechtiar 1972a (ON); 10) Dechtiar 1972b (ON); 11) Kakonge 1972 (ON); 12) Molnar et al. 1974 (ON); 13) Cone 1978 (NB); 14) Cone 1979a (NB); 15) Cone 1979b (NB); 16) Cone 1979c (NB); 17) Cone 1980 (NB); 18) Cone & Burt 1981 (NB); 19) Cone & Burt 1982a (NB); 20) Cone & Burt 1982b (NB); 21) Cone & Burt 1985 (NB); 22) Poole & Dick 1985 (MB); 23) Dechtiar & Christie 1988 (ON); 24) Dechtiar et al. 1988 (ON); 25) Dechtiar & Lawrie 1988 (ON); 26) Dechtiar & Nepszy1988 (ON); 27) Szalai & Dick 1991a (MB); 28) Szalai et al. 1992 (MB); 29) Zelmer 1994 (AB - Burnstick Lake, Carburn Pond, Coal Lake, Elkwater Lake, Fincastle Lake, Garner Lake, Pigeon Lake, Pine Lake, Rattlesnake Lake, Sherburne Lake, Sylvan Lake; 30) Zelmer & Arai, 1998 (AB-Garner Lake)

Urocleidus baldwini (Dechtiar, 1974) Beverley-Burton, 1984 Synonym: Cleidodiscus baldwini

Dechtiar, 1971 Site: gills

Host: Percopsis omiscomaycus

Distribution: ON

Records: Dechtiar 1974a; Dechtiar & Christie 1988; Dechtiar et al. 1988; Dechtiar & Lawrie 1988 (ON); Dechtiar

et al. 1989 (ON)

? Urocleidus sp.

Site: gills

Host: Etheostoma exile

Distribution: ON

Record: Molnar et al. 1974

SUBFAMILY DACTYLOGYRINAE

Acolpenteron catostomi Fischthal and Allison, 1942

Site: ureters

Hosts: Carpiodes cyprinus (1, 14) Catostomus catostomus (3, 4, 7, 8,

9, 12, 13, 15)

Catostomus commersoni (1, 2, 5, 6,

10, 11, 12, 13, 14, 15)

Catostomus macrocheilus (4, 7, 8,

9)

Distribution: BC, NB, ON, QC
Records: 1) Dechtiar 1972a (ON); 2)
Dechtiar 1972b (ON); 3) Hanek &
Molnar 1974 (QC); 4) Anonymous 1978
(BC); 5) Cone 1980 (NB); 6) Chan 1980
(ON); 7) Anonymous 1981 (BC); 8) Arai & Mudry 1983 (BC); 9) Anonymous 1984 (BC); 10) Beverley-Burton 1984
(ON); 11) Dechtiar & Christie 1988

(ON); 12) Dechtiar et al.1988 (ON); 13) Dechtiar & Lawrie 1988 (ON); 14) Dechtiar & Nepszy 1988 (ON); 15) Dechtiar et al 1989 (ON)

Dactylogyrus albertensis Price and Arai, 1967

Site: gills

Host: Platygobio gracilis

Distribution: AB

Records: Price & Arai 1967 (AB - Milk River); Arai & Chien 1973 (AB - Milk River, Oldman River, St. Mary River)

Dactylogyrus banghami Mizelle and Donahue, 1944

Site: gills

Hosts: Couesius plumbeus (1, 7, 9)

Margariscus margarita (7, 9)

Rhinichthys cataractae (1, 2, 3, 4, 5, 6, 7, 8)

Richardsonius balteatus (1)

Distribution: AB, BC, ON
Records: 1) Monaco & Mizelle 1955
(BC, ON); 2) Price & Arai 1967 (AB - Milk River); 3) Dechtiar 1972a (ON); 4)
Hanek & Fernando 1972b (ON); 5) Arai & Chien 1973 (AB - Milk River,
Oldman River, St. Mary River); 6)
Dechtiar & Christie 1988 (ON); 7)
Dechtiar et al. 1988 (ON); 8) Dechtiar & Lawrie 1988 (ON); 9) Dechtiar et al.

Dactylogyrus buddi Dechtiar, 1974

Site: gills

1989 (ON)

Hosts: Cottus cognatus (1, 2, 3, 6) Cottus ricei (4,5)

Distribution: ON, YT

Records: 1) Dechtiar 1974b (ON); 2) Arthur et al. 1976 (YT); 3) Dechtiar & Christie 1988 (ON); 4) Dechtiar et al. 1988 (ON); 5) Dechtiar & Lawrie 1988 (ON); 6) Dechtiar et al. 1989 (ON)

Dactylogyrus bychowskyi Mizelle, 1937

Site: gills

Host: Pimephales promelas

Distribution: ON

Records: Hanek 1971; Molnar et al. 1974; Hanek et al. 1975; Chan 1980

Dactylogyrus chrosomi Molnar and Fernando, 1975

Site: gills

Hosts: Phoxinus eos (1, 3)
Phoxinus neogaeus (2, 3)

Distribution: ON

Records: 1) Hanek et al. 1975; 2)
Dechtiar et al. 1988; 3) Dechtiar et al. 1989

Dactylogyrus columbiensis Monaco and Mizelle, 1955

Site. gills

Host: Ptychocheilus oregonensis

Distribution: BC

Record: Monaco & Mizelle 1955

Dactylogyrus duquesni (Mueller, 1938) Price, 1938 Site: gills

Host: Moxostoma macrolepidotum

Distribution: ON

Record: Dechtiar et al. 1988

Dactylogyrus eos Hanek, Molnar and Fernando, 1975

Site: gills

Host: *Phoximus eos*Distribution: NB, ON

Records: Hanek et al. 1975 (ON); Cone 1980 (NB); Dechtiar et al. 1989 (ON)

Dactylogyrus eucalius Mizelle and Regensberger, 1945

Site: gills

Host: Culaea inconstans

Distribution: ON

Records: Dechtiar 1972a; Dechtiar 1972b; Hanek & Fernando 1972b; Hanek et al. 1975; Dechtiar & Christie 1988; Dechtiar et al. 1988; Dechtiar et al. 1989

Dactylogyrus hankinsoni Hanek, Molnar and Fernando, 1975

Site: gills

Host: Hybognathus hankinsoni

Distribution: ON

Record: Hanek et al. 1975

Dactylogyrus mollis Chien, 1974

Site: gills

Host: Pimephales promelas

Distribution: ON

Record: Chan 1980

Dactylogyrus mylocheilus Monaco and Mizelle, 1955

Site: gills

Host: Couesius plumbeus Distribution: BC, ON

Records: Monaco & Mizelle 1955 (BC);

Dechtiar 1972a (ON)

Dactylogyrus ptychocheilus Monaco and Mizelle, 1955

Site: gills

Host: Ptychocheilus oregonensis

Distribution: BC

Record: Monaco & Mizelle 1955

Dactylogyrus richardsonius Monaco and Mizelle, 1955

Site: gills

Host: Richardsonius balteatus

Distribution: BC

Record: Monaco & Mizelle 1955

Dactylogyrus tridactylus Monaco and Mizelle, 1955

Site: gills

Host: Ptychocheilus oregonensis

Distribution: BC

Record: Monaco & Mizelle 1955

Dactylogyrus urus Mueller, 1938

Site: gills

Hosts: Moxostoma anisurum (1)

Moxostoma macrolepidotum (2)

Distribution: ON

Records: 1) Dechtiar 1972b; 2) Dechtiar

& Christie 1988

Dactylogyrus vancleavei Monaco and Mizelle, 1955

Site: gills

Host: Ptychocheilus oregonensis

Distribution: BC

Records: Monaco & Mizelle 1955; Anonymous 1981; Anonymous 1984

Dactylogyrus sp.

Site: gills

Hosts: Catostomus commersoni (4)

Culaea inconstans (3) Etheostoma exile (8)

Gasterosteus aculeatus (5)

Hybognathus hankinsoni (3, 4)

Margariscus margarita (6)

Moxostoma macrolepidotum (2)

Notropis atherinoides (2, 7, 8)

Notropis hudsonius (1, 2, 7, 8, 9)

Phoxinus neogaeus (7)

Pimephales promelas (1, 3, 7)

Distribution: BC, NB, ON

Records: 10 Dechtiar 1972a (ON); 2)

Dechtiar 1972b (ON); 3) Kakonge 1972 (ON); 4) Molnar et al. 1974 (ON); 5)

Lester 1975 (BC); 6) Cone 1980 (NB);

7) Dechtiar & Christie 1988 (ON);

8) Dechtiar et al. 1988 (ON); 9) Dechtiar

& Lawrie 1988 (ON)

Pellucidhaptor angularis Kritisky and

Hathaway, 1969

Sites: body surface, fins Host: Carpiodes cyprinus

Distribution: ON

Records: Dechtiar & Nepszy 1988;

Beverley-Burton et al. 1992

Pellucidhaptor catostomi Dechtiar, 1969

Site: gills, nares

Host: Catostomus catostomus

Distribution: ON

Records: Dechtiar 1969; Dechtiar et al. 1988; Dechtiar & Lawrie 1988; Dechtiar

et al. 1989

Pellucidhaptor eremitus Rogers, 1967

Site: fins

Host: Carpiodes cyprinus

Distribution: ON

Record: Dechtiar & Nepszy 1988

Pellucidhaptor eriensis Beverley-Burton, Chisolm and Dechtiar, 1992

Site: fins, body surface

Hosts: Carpiodes cyprinus

Moxostoma macrolepidotum

Distribution: ON

Record: Beverley-Burton et al. 1992

Pellucidhaptor micracanthus Kritsky, Leiby and Shelton, 1972

Site: fins

Host: Carpiodes cyprinus

Distribution: ON

Records: Dechtiar & Nepszy 1988;

Beverley-Burton et al. 1992

Pellucidhaptor moxostomi Mergo and White, 1982

Site: fins, gills

Host: Moxostoma anisurum

Distribution: ON

Record: Beverley-Burton et al. 1992

Pellucidhaptor nasalis Dechtiar, 1969

Site: nares

Hosts: Catostomus catostomus (5, 6)

Catostomus commersoni (1, 2, 3, 4,

7, 8, 9)

Catostomus macrocheilus (6)

Distribution: BC, NB, ON

Records: 1) Dechtiar 1969 (ON); 2)

Dechtiar 1972a (ON); 3) Cone 1980 (NB); 4) Chan 1980 (ON); 5) Anonymous 1981 (BC); 6) Anonymous 1984 (BC); 7)

Dechtiar et al. 1988 (ON); 8) Dechtiar et al. 1989 (ON); 9) Beverley-Burton et al.

1991 (ON)

Pellucidhaptor pellucidhaptor Price and Mizelle, 1964

Site: gills

Host: Richardsonius balteatus

Distribution: BC

Records: Anonymous 1978; Arai &

Mudry 1983

Pellucidhaptor thelostea Beverley-Burton, Chisolm and Dechtiar, 1992

Site: body surface, fins

Host: Moxostoma macrolepidotum

Distribution: ON

Record: Beverley-Burton et al. 1992

Pellucidhaptor sp.

Sites: body surface, fins

Hosts: Carpiodes cyprimus (1)

Mossostoma macrolepidotum (1,2)

Distribution: ON

Records: 1) Dechtiar 1972b; 2) Dechtiar

et al. 1988

Dactylogyridae gen. sp.

Site: [gills]

Host: Esox lucius

Distribution: AB

Record: Pybus & Samuel 1978 (AB -

Carson Lake)

FAMILY PSEUDOMURRAYTREMATIDAE

Anonchohaptor anomalum Mueller, 1938

Sites: fins, gills

Hosts: Carpiodes cyprinus (1, 2, 11, 15,

17)

Catostomus catostomus (3, 4, 5,

6, 8, 9, 10, 13, 16)

Catostomus commersoni (1, 2, 3,

4, 6, 7, 9, 12, 13, 14, 16, 18)

Catostomus macrocheilus (6, 9)

Moxostoma anisurum (1, 2) Moxostoma macrolepidotum (2,

12)

Distribution: BC, LB, MB, NB, ON, QC, YT

Records: 1) Dechtiar 1972a (ON); 2) Dechtiar 1972b (ON); 3) Dechtiar & Dillon 1974 (ON); 4) Threlfall 1974 (LB); 5) Arthur et al. 1976 (YT); 6) Anonymous1978 (BC); 7) Cone 1980 (NB); 8) Anonymous 1981 (BC); 9) Arai & Mudry 1981 (BC); 10) Anonymous 1984 (BC); 11) Szalai & Dick 1987a (MB); 12) Dechtiar & Christie 1988 (ON); 13) Dechtiar et al. 1988 (ON); 14) Dechtiar & Lawrie 1988 (ON); 15) Dechtiar & Nepszy 1988 (ON); 16) Dechtiar et al. 1989 (ON); 17) Szalai et al. 1992 (MB); 18) Dubois et al. 1996 (QC)

Anonchohaptor muelleri Kritsky, Leiby and Shelton, 1972

Site: fins

Host: Carpiodes cyprinus

Distribution: ON

Record: Dechtiar & Nepszy 1988

Anonchohaptor sp.

Site: [gills]

Host: Carpiodes cyprinus

Distribution: ON

Record: Dechtiar 1972b

Icelanonchohaptor fyviei Dechtiar and Dillon, 1974

Sites: body surface, fins Host: Carpiodes cyprinus

Distribution: ON

Records: Dechtiar & Dillon 1974; Dechtiar & Nepszy 1988

Icelanonchohaptor microcotyle Kritsky, Leiby and Shelton, 1972

Sites: body surface, fins Host: Carpiodes cyprimus

Distribution: ON

Record: Dechtiar & Nepszy 1988

Pseudomurraytrema alabarum Rogers, 1966

Site: gills

Host: Catostomus commersoni

Distribution: ON

Record: Dechtiar et al. 1989

Pseudomurraytrema copulatum (Mueller, 1938) Bychowsky, 1957

Site: gills

Hosts: Catostomus catostomus (3, 4, 5, 6,

9)

Catostomus commersoni (1, 2, 3,

5, 7, 9, 10, 11)

Catostomus macrocheilus (3, 4, 5,

6)

Moxostoma anisurum (1, 2) Moxostoma macrolepidotum (7, 8)

Distribution: BC, ON

Records: 1) Dechtiar 1972a (ON); 2) Dechtiar 1972b (ON); 3) Anonymous 1978 (BC); 4) Anonymous 1981 (BC); 5) Arai & Mudry 1983 (BC); 6) Anonymous 1984 (BC); 7) Dechtiar & Christie 1988 (ON); 8) Dechtiar et al. 1988 (ON); 9) Dechtiar & Lawrie 1988 (ON); 10) Dechtiar & Nepszy 1988 (ON); 11) Dechtiar et al.1989 (ON)

Pseudomurraytrema muelleri Price, 1967

Site: gills

Host: Catostomus commersoni

Distribution: AB, ON

Records: Price & Arai 1967 (AB - Milk

River); Chan 1980 (ON)

Pseudomurraytrema sp.

Site: gills

Host: Moxostoma anisurum

Distribution: ON

Record: Dechtiar 1972a

SUBORDER TETRAONCHINEA

FAMILY TETRAONCHIDAE

Tetraonchus alaskensis Price, 1937

Site: gills

Hosts: Oncorhynchus kisutch (2, 4)

Salvelinus malma (1, 2, 3, 4)

Distribution: BC

Records: 1) Anonymous 1978; 2)

Anonymous 1981; 3) Arai & Mudry 1983;

4) Anonymous 1984

Tetraonchus borealis (Olsson, 1893) Monticelli, 1905 Site: gills

Host: *Thymallus arcticus* Distribution: BC, SK, YT

Records: 1) Arthur et al. 1976 (YT); 2) Wobeser et al. 1976 (SK); 3) Anonymous 1978 (BC); 4) Arai & Mudry 1983 (BC)

Tetraonchus loftusi Dechtiar, 1972

Site: gills

Hosts: Esox lucius

Prosopium cylindraceum

Distribution: ON

Record: Dechtiar 1972c

Tetraonchus monenteron (Wagener, 1857) Diesing, 1858

Site: gills

Hosts: *Esox lucius* (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23)

Perca flavenscens (9) Salvelinus namaycush (12)

Distribution: AB, LB, MB, ON, YT Records: 1) Threlfall & Hanek 1970b (LB); 2) Hanek 1971 (ON); 3) Hanek & Fernando 1972a (ON); 4) Hanek & Fernando 1972b (ON); 5) Dechtiar 1972a (ON); 6) Dechtiar 1972b (ON); 7) Dechtiar 1972c (ON); 8) Arai & Chien 1973 (AB - Milk River, Oldman River, St. Mary River); 9) Hicks & Threlfall 1973 (LB); 10) Arthur et al. 1976 (YT); 11) Watson 1977 (MB); 12) Chinniah & Threlfall 1978 (LB); 13) Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Jarvis Lake); 14) Watson & Dick 1980 (MB); 15) Samuel 1981 (AB - Blue Lake, Cache Lake, Jarvis Lake); 16)

Anthony 1983 (ON); 17) Samuel 1985 (AB - Blue Lake, Cache Lake, Jarvis Lake); 18) Dechtiar & Christie 1988 (ON); 19) Dechtiar et al. 1988 (ON); 20) Dechtiar & Lawrie 1988 (ON); 21) Dechtiar & Nepszy 1988 (ON); 22) Stock 1988 (AB - Jarvis Lake); 23) Szalai et al. 1992 (MB)

Tetraonchus variabilis Mizelle and Webb, 1953

Site: gills

Hosts: Coregonus clupeaformis (8)
Oncorhychus mykiss (8)

Prosopium coulteri (4)

Prosopium cylindraceum (1, 2, 3,

9,10, 11)

Prosopium williamsoni (5, 6, 7, 8)

Salvelinus fontinalis (2)

Distribution: BC, LB, ON, YT
Records: 1) Dechtiar 1972c (ON); 2)

Hicks & Threlfall 1973 (LB); 3) Arthur et al. 1976 (YT); 4) Mudry & Anderson 1977 (BC); 5) Anonymous 1978 (BC); 6) Anonymous 1981 (BC); 7) Arai & Mudry 1983 (BC); 8) Anonymous 1984 (BC); 9) Dechtiar et al. 1988 (ON); 10) Dechtiar & Lawrie 1988 (ON); 11) Dechtiar et al. 1989 (ON)

Tetraonchus sp.

Site: [gills]

Host: Stizostedion vitreum

Distribution: AB

Records: Fillion 1961 (AB - Lac Ste-Anne); Ryder 1963 (AB - Iosegun

Lake)

ORDER GYRODACTYLIDEA

FAMILY GYRODACTYLIDAE

Gyrodactyus aldrichi Threlfall, 1974

Site: gills

Host: Couesius plumbeus

Distribution: LB

Record: Threlfall 1974

Gyrodactylus alexanderi Mizelle and Kritsky, 1967

Site: body surface, fins

Host: Gasterosteus aculeatus

Distribution: BC

Records: Lester 1971a; Lester 1972;

Lester & Adams 1974a; Lester & Adams 1974b; Lester 1975; Cone & Wiles 1985

Gyrodactylus aquilinus Threlfall, 1974

Site: fins

Host: Catostomus catostomus

Distribution: LB, ON

Records: Threlfall 1974 (LB); Chan

1980 (ON)

Gyrodactylus atratuli Putz and Hoffman, 1963

Site: fins

Hosts: Catostomus catostomus (4)

Catostomus commersoni (5)

Rhinichthys cataractae (1, 2, 3, 6)

Distribution: LB, ON

Records: 1) Hanek & Fernando 1971 (ON); 2) Hanek 1971 (ON); 3) Hanek & Fernando 1972b (ON); 4) Threlfall 1974 (LB); 5) Chan 1980 (ON); 6) Dechtiar et al. 1988 (ON)

Gyrodactylus avalonia Hanek and Threlfall, 1969

Synonyms: Gyrodactylus lairdi Hanek and Threlfall, 1969; Gyrodactylus memorialis Hanek and Threlfall, 1969; Gyrodactylus terranovae Hanek and Threlfall, 1969

Site: body surface

Hosts: *Gasterosteus aculeatus* (1, 2, 5, 6, 7, 10, 11, 12, 13)

Oncorhynchus mykiss (9)
Pungitius pungitius (3, 8, 12, 14)
Salvelinus namaycush (4)

Distribution: LB, NB, NF, NS, ON, QC Records: 1) Hanek & Threlfall 1969b (NF); 2) Hanek & Threlfall 1970a (NF); 3) Hanek & Threlfall 1970b (LB); 4) Threlfall & Hanek 1970c (NF); 5) Hanek & Fernando 1971 (ON); 6) Hanek 1971 (ON); 7) Hanek & Fernando 1972b (ON); 8) Hanek & Molnar 1974 (QC); 9) Cone et al. 1982 (NS); 10) Cone & Odense 1984 (NF); 11) Cone & Ryan 1984 (NF); 12) Cone & Wiles 1985 (NB, NF, NS, ON); 13) Dechtiar & Christie 1988 (ON); 14) Marcogliese 1995 (NS)

Gyrodactylus bairdi Wood and Mizelle, 1957

Synonym: *Gyrodactylus labradorius*Hanek and Threlfall, 1970
Site: fins

Host: Cottus cognatus
Distribution: ON, YT

Records: Arthur et al. 1976 (YT); Dechtiar et al. 1989 (ON)

Gyrodactylus calliaratus Malmberg, 1957

Site: body surface, gills Host: Salvelinus fontinalis

Distribution: NB

Records: Frimeth 1987a; Frimeth 1987b

Gyrodactylus canadensis Hanek and Threlfall, 1969

Site: gills

Hosts: Gasterosteus aculeatus (1, 2, 5)

Pungitius pungitius (3, 4, 5, 6, 7)

Distribution: LB, NB, NF, NS, NT, QC

Records: 1) Hanek & Threlfall 1969b

(NF); 2) Hanek & Threlfall 1970a (NF);
3) Hanek & Threlfall 1970b (NF); 4)

Hanek & Molnar 1974 (QC); 5) Cone & Wiles 1985 (NB, NF, NS, NT); 6)

Marcogliese 1992 (NS)

Gyrodactylus colemanensis Mizelle and Kritsky, 1967

Site: body surface, fins

Hosts: Oncorhynchus mykiss (1, 2, 5, 6, 7, 8, 9)

Salmo trutta (1)

Salvelinus fontinalis (1, 2, 3, 4, 5, 7, 9)

Salvelinus fontinalis X Salvelinus namaycush (1) Salvelinus namaycush (1)

Distribution: NB, NF, NS, ON

Records: 1) Cone et al. 1983 (NF, NS, ON); 2) Cusack 1986 (NS); 3) Frimeth 1987a (NB); 4) Frimeth 1987b (NB); 5) Cone & Cusack 1988 (NS); 6) Cusack et al. 1988 (NS); 7) Cone & Cusack 1989 (NS); 8) Cone & Wiles 1989 (NS); 9) Wells & Cone 1990 (NS)

Gyrodactylus commersoni Threlfall, 1974

Site: gills

Host: Catostomus commersoni

Distribution: LB

Record: Threlfall 1974

Gyrodactylus couesius Wood and Mizelle, 1954

Sites: fins, gills

Host: Couesius plumbeus
Distribution: BC, ON

Records: Wood & Mizelle 1957 (BC); Dechtiar et al. 1988 (ON); Dechtiar et al. 1989 (ON)

Gyrodactylus dechtiari Hanek and Fernando, 1971

Sites: fins, gills

Host: Rhinichthys cataractae

Distribution: ON

Records: Hanek & Fernando 1971: Hanek 1971; Hanek & Fernando 1972b; Dechtiar et al. 1988; Dechtiar & Lawrie 1988

Gyrodactylus etheostomae Wellborn and Rogers, 1967

Sites: fins, gills

Host: Etheostoma exile

Record: Molnar et al. 1974

Gyrodactylus eucaliae Ikezaki and Hoffman, 1957

Sites: body surface, fins

Hosts: Culaea inconstans (1, 2, 3, 4, 5, 6, 7, 8)

Pungitius pungitius (7)

Distribution: ON

Records: 1) Hanek & Fernando 1971; 2) Hanek & Fernando 1972b; 3) Dechtiar 1972a; 4) Kakonge 1972: 5) Cone &Wiles 1985; 6) Dechtiar & Christie 1988; 7) Dechtiar et al. 1988; 8) Dechtiar et al. 1989

Gyrodactylus freemani Hanek and Fernando, 1971

Site: fins

Host: Perca flavescens
Distribution: ON

Records: Hanek & Fernando 1971; Hanek & Fernando 1972b; Dechtiar & Christie 1988; Dechtiar et al. 1988; Dechtiar et al. 1989

Gyrodactylus hoffmani Wellborn and Rogers, 1967

Site: fins

Host: Pimephales promelas

Distribution: ON

Records: Kakonge 1972; Molnar et al. 1974; Chan 1980

Gyrodactylus lacustris Mizelle and Kritsky, 1967

Site: fins

Host: Pimephales promelas

Distribution: ON

Record: Dechtiar et al. 1989

Gyrodactylus limi Wood and Mizelle, 1957

Sites: body surface, fins

Host: Catostomus commersoni

Distribution: ON

Record: Kakonge 1972

Gyrodactylus lotae Gusev, 1953

Site: body surface
Host: Lota lota
Distribution: ON

Record: Cone & Dechtiar 1986

Gyrodactylus lucii Kulakovskaya, 1952

Site: body surface Host: Esox lucius Distribution: ON

Record: Cone & Dechtiar 1986

Gyrodactylus margaritae Putz and Hoffman, 1963

Site: fins

Host: Margariscus margarita

Distribution: ON

Record: Dechtiar et al. 1988

Gyrodactylus perlucidus Bykhovsky and Polyansky, 1953

Sites: body surface, fins Host: Salvelinus fontinalis

Distribution: NB

Records: Frimeth 1987a; Frimeth 1987b

Gyrodactylus plumbeae Threlfall, 1974

Site: gills

Host: Couesius plumbeus

Distribution: LB

Record: Threlfall 1974

Gyrodactylus salmonis Yin and Sproston, 1948

Sites: body surface, gills

Hosts: Oncorhynchus clarki (1)

Oncorhynchus mykiss (1, 5, 6) Salvelinus fontinalis (1, 2, 3, 4, 5,

6)

Distribution: BC, NB, NS

Records: 1) Cone et al. 1983 (BC, NS); 2) Cusack & Cone 1986 (NS); 3) Frimeth 1987a (NB); 4) Frimeth 1987b (NB); 5) Cone & Cusack 1988 (NS); 6) Wells &

Cone 1990 (NS)

Gyrodactylus spathulatus Mueller, 1936

Sites: fins, gills

Hosts: Catostomus catostomus (3)
Catostomus commersoni (1, 2, 4,

5, 6, 7, 8)

Moxostoma anisurum (1)

Distribution: LB, ON

Records: 1) Dechtiar 1972a (ON); 2)

Dechtiar 1972b (ON); 3) Threlfall 1974 (LB); 4) Chan 1980 (ON); 5) Dechtiar & Christie 1988 (ON); 6) Dechtiar et al. 1988 (ON); 7) Dechtiar & Nepszy 1988 (ON); 8) Dechtiar et al. 1989 (ON)

Gyrodactylus stephanus Mueller, 1937

Site: gills

Host: Pungitius pungitius

Distribution: NF

Record: Dickinson & Threlfall 1976

Gyrodactylus stunkardi Kritsky and Mizelle, 1968

Sites: fins, gills

Hosts: Catostomus commersoni (5)

Rhinichthys cataractae (1, 2, 3, 4,

6)

Distribution: LB, ON

Records: 1) Hanek & Fernando 1971 (ON); 2) Hanek 1971 (ON); 3) Hanek & Fernando 1972b (ON); 4) Threlfall 1974 (LB); 5) Molnar et al. 1974 (ON); 6) Dechtiar & Christie 1988 (ON)

Gyrodactylus sp.

Sites: body surface, fins, gills Hosts: Carpiodes cyprinus (20)

Catostomus catostomus (21)

Catostomus commersoni (17, 18,

19)

Culaea inconstans (2)
Esox lucius (18)
Etheostoma exile (1, 3, 18)
Gasterosteus aculeatus (17)
Hybognathus hankinsoni (3, 6)

Lota lota (21) Moxostoma anisurum (2) Moxostoma macrolepidotum (2,

Notropis atherinoides (18)
Notropis hudsonius (2, 17, 18)
Oncorhynchus clarki (8)
Oncorhynchus kisutch (13)
Oncorhynchus mykiss (5, 9, 14)
Perca flavescens (3)
Percina caprodes (18)
Percopsis omiscomaycus (1, 17, 18

21)

Phoximus eos (10, 21)

Phoximus neogaeus (17, 18, 21)

Pimephales promelas (3, 17, 18)

Ptychocheilus oregonensis (15)

Pungitius pungitius (7, 11, 12, 16)

Salvelinus fontinalis (4, 5)

Distribution: **AB**, BC, LB, NB, NS, NT, ON

Records: 1) Dechtiar 1972a (ON); 2) Dechtiar 1972b (ON); 3) Kakonge 1972 (ON); 4) Hicks & Threlfall 1973 (LB); 5) Hare & Frantsi 1974 (NS); 6) Molnar et al. 1974 (ON); 7) Leong 1975 (AB -Cold Lake); 8) Hoskins et al. 1976 (BC); 9) Hoskins & Hulstein 1977 (BC); 10) Cone 1980 (NB); 11) Leong & Holmes 1981 (AB - Cold Lake); 12) Curtis 1982 (NT); 13) Margolis 1982 (BC); 14) McAllister & Mudry 1983 (AB - Sam Livingstone Hatchery); 15) Cone & Dechtiar 1984 (BC); 16) Cone & Wiles 1985 (ON); 17) Dechtiar & Christie 1988 (ON); 18) Dechtiar et al. 1988 (ON); 19) Dechtiar & Lawrie 1988 (ON); 20) Dechtiar & Nepszy 1988 (ON); 21) Dechtiar et al. 1989 (ON)

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Gyrodactylidae gen. sp.

Site: gills

Hosts: Catostomus commersoni

Perca flavescens Phoxinus eos

Distribution: ON

Record: Bangham 1941

Gyrodactyloidea gen. sp.

Sites: body surface, gills

Hosts: Catostomus catostomus (2)

Catostomus commersoni (1) Catostomus macrocheilus (2)

Cottus cognatus (2)
Couesius plumbeus (2)

Culaea inconstans (2, 3)

Esox lucius (3)

Gasterosteus aculeatus (2)

Notropis atherinoides (3)

Notropis hudsonius (3)

Oncorhynchus clarki (2)

Oncorhynchus kisutch (2)

Oncorhynchus mykiss (2)

Perca flavescens (1, 3)

Percina caprodes (3)

Percopsis omiscomaycus (3)

Phoxinus eos (3)

Phoxinus neogaeus (1)

Pimephales promelas (3)

Prosopium cylindraceum (2)

Prosopium williamsoni (2, 4, 5)

Ptychocheilus oregonensis (2, 4,

5)

Rhinichthys cataractae (2)

Richardsonius balteatus (2)

Salvelinus malma (2)

Stizostedion vitreum (3)

Distribution: BC, ON

Records: 1) Bangham 1941 (ON); 2)

Bangham & Adams 1954 (BC); 3) Bangham 1955 (ON); 4) Anonymous 1978 (BC); 5) Arai & Mudry 1983 (BC)

ORDER DICLYBOTHRIIDEA

FAMILY DICLYBOTHRIIDAE

Diclybothrium atriatum Choudhury and Dick, 1996

Synonym: Diclybothrium armatum

Leuckart, 1835 Site: gills

Host: Acipenser fulvescens

Distribution: MB, ON, QC, SK

Records: Stafford 1904 (ON); Cooper 1915 (ON); Price 1942 (QC); Bangham 1955 (ON); Dechtiar 1972a (ON);

Dechtiar 1972b (ON); Anthony 1974 (ON); Wright & Dechtiar 1974 (ON); Dechtiar & Christie 1988 (ON); Dechtiar

et al. 1988 (ON); Dechtiar & Lawrie 1988 (ON); Choudhury et al 1990 (MB, SK);

Swanson et al. 1991 (MB); Choudhury & Dick 1993 (MB, SK); Choudhury & Dick

1996b (MB, SK)

Diclybothrium hammulatum (Simer, 1929) Price, 1942

Synonym: Diplobothrium hammulatum

Simer, 1929 Site: gills

Host: Acipenser fulvescens

Distribution: ON

Record: Bangham 1955

Paradiclybothrium sp.

Site: gills

Host: Acipenser fulvescens

Distribution: ON

Record: Anthony 1974

ORDER MAZOCRAEIDA

SUBORDER DISCOCOTYLINEA

FAMILY DISCOCOTYLIDAE

Discocotyle sagittata (Leuckart, 1842) Diesing, 1850

Synonym: Discocotyle salmonis

Schaffer, 1916

Site: gills

Hosts: Coregonus artedii (2, 6, 10, 11, 13,

15, 16, 17, 20)

Coregonus clupeaformis (6, 8, 10,

11, 12, 13, 14, 16, 17, 18, 19, 20, 22)

Oncorhynchus kisutch (10, 11, 17)

Oncorhynchus mykiss (7)

Prosopium cylindraceum (2, 8, 12,

20)

Prosopium williamsoni (1)

Salmo trutta (3, 4, 5, 7)

Salvelinus fontinalis (3, 4, 5, 7, 8,

9, 14, 18, 21)

Salvelinus fontinalis X Salvelinus

namaycush (15, 19)

Salvelinus malma (1)

Salvelinus namaycush (8, 10, 12,

20)

Thymallus arcticus (12)

Distribution: AB, BC, LB, MB, NF, NS,

ON, YT

Records: 1) Bangham & Adams 1954 (BC); 2) Bangham 1955 (ON); 3) Sandeman & Pippy 1967 (NF); 4) Hanek & Threlfall 1970c (NF); 5) Hanek 1971 (ON); 6) Dechtiar 1972a (ON); 7) Hanek & Fernando 1972b (ON); 8) Hicks & Threlfall 1973 (LB); 9) Hare & Frantsi 1974 (NS); 10) Leong & Holmes 1974a (AB - Cold Lake); 11) Leong 1975 (AB-Cold Lake); 12) Arthur et al. 1976 (YT); 13) Watson 1977 (MB); 14) Chinniah & Threlfall 1978 (LB); 15) Dechtiar & Berst 1978 (ON); 16) Watson & Dick 1979 (MB); 17) Leong & Holmes 1981 (AB -Cold Lake); 18) Cone & Ryan 1984 (NF): 19) Dechtiar et al. 1988 (ON): 20) Dechtiar & Lawrie 1988 (ON); 21) Marcogliese & Cone 1991b (NF)

Discocotyle sp.

Site: gills

Host: Salvelinus fontinalis

Distribution: OC

Record: Hanek & Molnar 1974

Neodiscocotyle carpioditis Dechtiar, 1967

Site: gills

Host: Carpiodes cyprinus

Distribution: ON

Records: Dechtiar 1967b; Dechtiar 1972;

Wright & Dechtiar 1974; Dechtiar &

Nepszy 1988

FAMILY OCTOMACRIDAE

Octomacrum lanceatum Mueller, 1934

Site: gills

Hosts: Catostomus catostomus (4, 10, 12,

14, 17, 18, 20)

Catostomus commersoni (1, 2, 3, 5,

6, 7, 8, 11, 16, 17, 18, 19)

Catostomus macrocheilus (4, 9, 12,

13, 14)

Pimephales promelas (15)

Distribution: BC, ON

Records: 1) Wright 1879 (ON); 2) Bangham 1941 (ON); 3) Bangham &

Venard 1946 (ON); 4) Bangham & Adams 1954 (BC); 5) Bangham 1955

(ON); 6) Dechtiar 1972a (ON); 7)

Dechtiar 1972b (ON); 8) Molnar et al. 1974 (ON); 9) Anonymous 1978 (BC);

10) Shepherd & Mace 1980 (BC); 11)

Chan 1980 (ON); 12) Anonymous 1981

(BC); 13) Arai & Mudry 1983 (BC); 14) Anonymous 1984 (BC); 15) Beverley-

Burton 1984 (ON); 16) Dechtiar &

Christie 1988 (ON); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar & Lawrie 1988

(ON); 19) Dechtiar & Nepszy 1988 (ON);

20) Dechtiar et al. 1989 (ON)

Octomacrum microconfibula Hargis, 1952

Site: gills

Hosts: Margariscus margarita (1)

Phoxinus eos (1)

Richardsonius balteatus (2)

Distribution: BC, NB

Records: 1) Cone 1980 (MB); 2) Shepherd & Mace 1980 (BC)

Octomacrum semotili Dechtiar, 1966

Site: gills

Hosts: Couesius plumbeus (2, 3, 4)

Margariscus margarita (1) Notropis hudsonius (3)

Phoximus eos (4)

Phoxinus neogaeus (1, 2, 4)

Pimephales promelas (4)

Distribution: ON

Records: 1) Dechtiar 1972a; 2) Dechtiar

& Christie 1988; 3) Dechtiar et al. 1988;

4) Dechtiar et al. 1989

Octomacrum sp.

Site: gills

Hosts: Couesius plumbeus (3, 4)

Hybognathus hankinsoni (1) Margariscus margarita (2)

Richardsonius balteatus (3)

Distribution: BC, ON

Records: 1) Bangham 1941 (ON); 2)

Bangham & Venard 1946 (ON), 3)

Bangham & Adams 1954 (BC); 4)

Dechtiar 1972a (ON)

SUBORDER MAZOCRAEOIDEA

FAMILY MAZOCRAEIDAE

Mazocraedoides sp.

Site: gills

Host: Hiodon tergisus
Distribution: ON

Record: Dechtiar 1972b

Monogenea gen. sp.

Site: gills

Hosts: Catostomus catostomus (1, 4) Oncorhynchus mykiss (3) Perca flavescens (2, 5)

Distribution: AB, BC

Records: 1) Anonymous 1981 (BC); 2) Samuel 1981 (AB - Jarvis Lake); 3) McAllister & Mudry 1983 (AB - Hasse Lake); 4) Anonymous 1984 (BC); 5) Samuel 1985 (AB - Jarvis Lake)

CLASS TREMATODA

SUBCLASS DIGENEA

ORDER STRIGEIFORMES

SUPERFAMILY CLINOSTOMOIDEA

FAMILY CLINOSTOMIDAE

*Clinostomum complanatum (Rudolphi, 1814) Braun, 1899

Synonym: Clinostomum marginatum (Rudophi, 1814) Braun, 1899 ?Clinostomum gracile of Includes: Stafford (1904)

fins, gills, gill chamber. Sites: mesenteries, musculature

Hosts: Catostomus commersoni (6, 9, 25, 30)

> Culaea inconstans (19) Esox lucius (5, 9, 20)

Etheostoma exile (19) Hybognathus hankinsoni (19) Notropis hudsonius (20, 28) Oncorhynchus mykiss (23, 29) Perca flavescens (1, 2, 3, 4, 5, 6,

8, 9, 10, 13, 14, 15, 16, 17, 18, 20, 21, 22, 24,26,27)

Percina caprodes (4) *Phoxinus eos* (27, 30) Pimephales promelas (8, 19) Richardonius balteatus (12) Salvelinus fontinalis (7, 9, 18) Stizostedion canadense (20) Stizostedion vitreum (11, 14, 15,

16, 18, 20, 24, 26)

BC, MB, ON, QC Distribution: Records: 1) Wright 1879 (ON); 2) Stafford 1904 (QC); 3) Cooper 1915 (ON); 4) Bangham & Hunter 1939 (ON); 5) Lyster 1939 (QC); 6) Bangham 1941 (ON); 7) MacLulich 1943b (ON); 8) Bangham & Venard 1946 (ON); 9) Fantham & Porter 1948 (QC); 10) Worley & Bangham 1952 (QC); 11) Stewart-Hay 1952a (MB); 12) Bangham & Adams 1954 (BC); 13) Bangham 1955 (ON); 14) Evans 1963b (MB); 15) Dickson 1964 (MB); 16) Dowsett & Lubinsky 1966 (MB); 17) Tedla (ON); 18) Tedla & Fernando 1969d (ON); 19) Kakonge 1972 (ON); 20) Dechtiar 1972a (ON); 21) Molnar et al. 1974 (ON); 22) Anthony 1976 (ON); 23) Hoskins et al. 1976 (BC); 24) Anthony 1978 (ON); 25) Chan 1980 (ON); 26) Dechtiar & Christie 1988 (ON); 27) Dechtiar et al. 1988 (ON); 28) Dechtiar & Lawrie 1988 (ON); 29) Szalai & Dick 1988 (MB); 30) Dechtiar et al. 1989 (ON)

*Clinostomum sp.

Sites: musculature, viscera Oncorhynchus clarki (3) Hosts: Oncorhynchus mykiss (1, 2, 3) Perca flavescens (1, 2, 4)

Phoxinus eos (5) Stizostedion vitreum (2)

Distribution: BC, MB, NB, QC 1) McLeod 1943 (MB); 2) Records: Dickson 1964 (MB); 3) Hoskins et al. 1976 (BC); 4) Pike & Burt 1981 (NB); 5) Dubois et al. 1996 (OC)

SUPERFAMILY STRIGEOIDEA

FAMILY DIPLOSTOMIDAE

*Crassiphialia bulboglossa Haitsma, 1925

Sites: fins, musculature, subcutaneous Hosts: Couesius plumbeus (11) Esox lucius (1, 2) Notropis hudsonius (4, 9) Perca flavescens (1, 2, 3, 5, 6, 7,

8,10)

Phoxinus eos (12) Pimephales promelas (3, 4, 7, 11) Rhinichthys cataractae (8, 9) Stizostedion vitreum (3, 8, 10)

Distribution: MB, ON, QC 1) Miller 1940a (QC); 2) Records: Cameron 1946 (QC); 3) Crossman 1962 (ON); 4) Kask 1963 (MB); 5) Dechtiar 1972a (ON); 6) Dechtiar 1972b (ON); 7) Dechtiar & Christie 1988 (ON); 8) Dechtiar et al. 1988 (ON); 9) Dechtiar & Lawrie 1988 (ON); 10) Dechtiar & Nepszy 1988 (ON); 11) Dechtiar et al.

1989 (ON)

*Neascus pyriformis Chandler, 1951

Sites: fins, subcutaneous Perca flavescens Host: Distribution: ON

Record: Molnar et al. 1974

*Neascus rhinichthysi Hunter, 1933

Sites: musculature, subcutaneous Host: Rhinichthys cataractae

Distribution: ON

Record: Bangham & Hunter 1939

*Neascus sp.

fins, gills, mesenteries, Sites: subcutaneous

Hosts: Catostomus catostomus (4, 10, 15, 18, 22)

Catostomus commersoni (5, 6, 7,

11, 16, 20, 21, 23)

Catostomus macrocheilus (4) Coregonus artedii (6)

Coregonus clupeaformis (6, 7)

Cottus cognatus (14) Couesius plumbeus (4, 11) Culaea inconstans (5, 11, 12)

Esox lucius (6, 7, 23)

Etheostoma exile (11, 12)

Hybognathus hankinsoni (3, 12)

Lota lota (6, 7)

Margariscus margarita (3) Moxostoma anisurum (11, 23) Moxostoma macrolepidotum (1)

Notropis hudsonius (1, 5, 10, 11,

22)

Oncorhynchus clarki (4) Oncorhynchus mykiss (13) Perca flavescens (1, 3, 4, 5, 6, 7, 8, 9, 10, 22) Percina caprodes (1, 11, 23) Percopsis omiscomaycus (5, 7) Phoxinus eos (4) Pimephales promelas (1, 11, 12, 16, 20, 21) Ptychocheilus oregonensis (4, 15, 17, 18, 19) Rhinichthys cataractae (4, 11, 21) Richardsonius balteatus (4) Salvelinus fontinalis (2, 4, 21) Salvelinus malma (4) Stizostedion canadense (1, 11) Stizostedion vitreum (1, 5, 23) Distribution: AB, BC, MB, ON, QC, YT Records: 1) Bangham & Hunter 1939 (ON); 2) MacLulich 1943b (ON); 3) Bangham & Venard 1946 (ON); 4) Bangham & Adams 1954 (BC); 5) Bangham 1955 (ON); 6) Lawler 1965e (MB); 7) Lawler 1966c (MB); 8) Tedla & Fernando 1969a (ON); 9) Tedia 1969 (ON); 10) Paetz & Nelson 1970 (AB unspecified); 11) Dechtiar 1972a (ON); 12) Kakonge 1972 (ON); 13) Hoskins et al. 1976 (BC); 14) Arthur et al. 1976 (YT); 15) Anonymous 1978 (BC); 16) Chan 1980 (ON); 17) Anonymous 1981 (BC); 18) Arai & Mudry 1983 (BC); 19) Anonymous 1984 (BC); 20) Dechtiar et al. 1988 (ON); 21) Steedman 1991 (ON); 22) Nelson & Paetz 1992 (AB -

unspecified); 23) Szalai et al. 1992 (MB)

Sites: central nervous system, eye orbit, musculature, viscera

Hosts: Catostomus commersoni (1)
Hybognathus hankinsoni (1, 2)
Perca flavescens (3)
Pimephales promelas (1, 2, 4)
Stizostedion vitreum (3)

Distribution: MB, ON
Records: 1) Kakonge 1972 (ON), 2)
Molnar et al. 1974 (ON), 3) Poole & Dick
1985 (MB), 4) Chan 1980 (ON)

*Posthodiplostomum cuticola (Nordmann, 1832) Dubois, 1936

Sites: kidney, liver, mesenteries
Hosts: Notropis atherinoides
Percina caprodes

Distribution: ON
Record: Cooper 1915

*Posthodiplostomum minimum (MacCallum, 1921) Dubois, 1936

Synonym: Neascus vancleavei
(Agersborg, 1926)
Sites: kidney, liver, mesenteries
Hosts: Carpiodes cyprinus (12)
Catostomus catostomus (4, 5, 7,

8)

Catostomus commersoni (3, 12)
Catostomus macrocheilus (4)
Couesius plumbeus (4, 5, 10)
Culaea inconstans (5, 10)
Esox lucius (6)
Etheostoma exile (5)
Gasterosteus aculeatus (4)
Lota lota (4, 5)
Notropis atherinoides (1, 5, 10)
Notropis hudsonius (1, 5, 6, 10,

^{*}Ornithodiplostomum ptychocheilus (Faust, 1917) Dubois, 1936

Perca flavescens (2, 3, 5)
Percina caprodes (6)
Percopsis omiscomaycus (1, 10)
Phoxinus eos (3, 5)
Phoxinus neogaeus (6, 10)
Pimephales promelas (3, 6)
Ptychocheilus oregonensis (4, 7, 8)
Rhinichthys cataractae (4, 5, 6, 10,11)
Richardsonius balteatus (4, 8)
Salvelinus fontinalis (5)

Stizostedion vitreum (1)
Distribution: BC, ON

Records: 1) Bangham & Hunter 1939
(ON); 2) Bangham 1941 (ON); 3)
Bangham & Venard 1946 (ON); 4)
Bangham & Adams 1954 (BC); 5)
Bangham 1955 (ON); 6) Dechtiar 1972a
(ON); 7) Anonymous 1981 (BC); 8)
Anonymous 1984 (BC); 9) Dechtiar &
Christie 1988 (ON); 10) Dechtiar et al.
1988 (ON); 11) Dechtiar & Lawrie 1988
(ON); 12) Dechtiar & Nepszy 1988 (ON)

*Posthodiplostomum minimum centrarchi Hoffman, 1958

Site: liver

Host: Perca flavescens
Distribution: ON

Record: Molnar et al. 1974

*Posthodiplostomum minimum minimum (MacCallum, 1921) Hoffman, 1958

Site: mesenteries

Hosts: Carpiodes cyprinus (1)
Catostomus commersoni (2)

Hybognathus hankinsoni (2, 3) Notropis atherinoides (1) Notropis hudsonius (1) Phoxinus eos (2) Pimephales promelas (2, 3, 4)

Distribution: ON

Records: 1) Dechtiar 1972b; 2) Kakonge 1972; 3) Molnar et al. 1974; 4) Chan 1980

*Uvulifer ambloplitis (Hughes, 1927) Dubois, 1938

Sites: fins, gills, musculature, subcutaneous

Hosts: Catostomus commersoni (6)
Culaea inconstans (5)
Esox lucius (2, 3, 4, 7, 8, 9)
Etheostoma exile (6)
Hybognathus hankinsoni (1, 6)
Margariscus margarita (1)
Notropis hudsonius (8)
Perca flavescens (1, 5, 6)
Phoxinus eos (1)
Phoxinus neogaeus (1)
Pimephales promelas (1, 2, 6)
Stizostedion vitreum (7)

Records: 1) Bangham 1941; 2) Crossman 1962; 3) Dechtiar 1972a; 4) Dechtiar 1972b; 5) Kakonge 1972; 6)

ON

Distribution:

Molnar et al. 1974; 7) Dechtiar & Christie 1988; 8) Dechtiar et al. 1988; 9) Dechtiar et al. 1988; 9) Dechtiar & Nepszy 1988

SUBFAMILY DIPLOSTOMINAE

*Diplostomum adamsi Lester and Huizinga, 1977 Site: eye

Host: Perca flavescens
Distribution: AB, BC, ON

Records: Tedla & Fernando 1969d
(ON); Tedla & Fernando 1972 (ON);
Lester 1977 (BC); Lester & Huizinga
1977 (ON); Zelmer 1994 (AB - Carburn
Pond, Fincastle Reservoir, Garner
Lake, Pigeon Lake, Rattlesnake
Reservoir, Sherbourne Reservoir);
Zelmer & Arai 1998 (AB - Garner
Lake)

*Diplostomum baeri bucculentum Dubois and Rausch, 1948

Site: eye

Hosts: Coregonus clupeaformis (1, 3, 4)
Couesius plumbeus (2)
Lota lota (2)
Oncorhynchus mykiss (2, 3, 4)
Prosopium williamsoni (2, 3, 4)
Ptychocheilus oregonensis (2)
Salvelinus malma (2, 3, 4)
Salvelinus namaycush (3, 4)

Distribution: BC, MB Records: 1) Dick & Rosen 1981 (MB); 2) Anonymous 1984 (BC); 3) Ching 1984a

(BC); 4) Ching 1985 (BC)

*Diplostomum scudderi (Olivier, 1941) Dubois, 1966

Synonym: Diplostomum baeri eucaliae
Hoffman and Hundley 1966

Hoffman and Hundley, 1966 Sites: central nervous system, eye

Hosts: Culaea inconstans (1, 2, 4)

Gasterosteus aculeatus (3)

Distribution: BC, ON

Records: 1) Dechtiar 1972a (ON);

2) Kakonge 1972 (ON);3) Lester 1975(BC);4) Dechtiar et al. 1988 (ON)

*Diplostomum spathaceum (Rudolphi, 1819) Olsson, 1876

Synonym: *Diplostomulum spathaceum* (Rudolphi, 1819) Hughes, 1929

Site: eye

Hosts: Acipenser fulvescens (24, 26) Carpiodes cyprimus (25, 27) Catostomus catostomus (3, 10, 25,

26, 28)

Catostomus commersoni (3, 5, 7,

13, 16, 24, 25, 26, 27)

Coregonus artedii (14, 15, 16, 24,

25, 26, 28, 29)

Coregonus clupeaformis (4, 7, 9,

10, 14, 15, 20, 22, 24, 25)

Cottus cognatus (10)

Cottus ricei (25)

Couesius plumbeus (17, 23, 24,

25)

Culaea inconstans (25, 29)
Esox lucius (10, 24, 25)
Etheostoma exile (5, 24)
Gasterosteus aculeatus (2, 8, 24)
Hybognathus hankinsoni (5)
Lota lota (10, 17, 25, 26)
Notropis atherinoides (24, 25)
Notropis hudsonius (24, 25, 26)
Oncorhynchus kisutch (25, 26)
Oncorhynchus mykiss (17, 24,

25, 26)

Perca flavescens (5, 7, 12, 13,

25, 26, 27)

Percopsis omiscomaycus (7, 24,

25, 26, 29)

Phoximus neogaeus (25)
Pimephales promelas (5, 16, 24,

29)

Prosopium cylindraceum (4, 10, 25, 26) Prosopium williamsoni (17) Ptychocheilus oregonensis (17) Pungitius pungitius (1, 9, 19, 20, 25) Rhinichthys cataractae (25) Salvelinus fontinalis (4, 6, 11, 18, 21, 24, 25, 29, 30) Salvelinus fontinalis X Salvelinus namaycush (7, 25, 29) Salvelinus malma (17) Salvelinus namaycush (4, 9, 10, 13, 20, 24, 25) Stizostedion vitreum (24, 25, 27) Thymallus arcticus (10) AB, BC, CA, LB, MB, NF, Distribution: NS, NT, ON, QC, YT 1) Hanek & Threlfall 1970b Records: (NF); 2) Hanek & Threlfall 1970a (NF, LB); 3) Threlfall & Hanek 1970a (LB); 4) Hicks & Threlfall 1973 (LB); 5) Molnar et al. 1974 (ON); 6) Hare & Frantsi 1974 (NS); 7) Collins & Dechtiar 1974 (ON); 8) Lester 1975 (BC); 9) Leong 1975 (AB- Cold Lake); 10) Arthur et al. 1976 (YT); 11) Bell & Margolis 1976 (CA); 12) Lester & Lee 1976 (EXP); 13) Lester & Huizinga 1977 (ON); 14) Watson 1977 (MB); 15) Watson & Dick 1979 (MB); 16) Chan 1980 (ON); 17) Anonymous 1981 (BC); 18) Black 1981 (QC); 19) Curtis 1981(NT); 20) Leong & Holmes 1981 (AB - Cold Lake); 21) Brassard et al. 1982 (QC); 22) Drouin 1982 (AB -McGregor Lake, Travers Reservoir); 23) Anonymous 1984 (BC); 24) Dechtiar & Christie 1988 (ON); 25) Dechtiar et al. 1988 (ON); 26) Dechtiar & Lawrie 1988 (ON); 27) Dechtiar & Nepszy 1988 (ON); 28) Curtis 1988 (CA); 29) Dechtiar et al. 1989 (ON); 30) Wright 1989 (QC)

*Diplostomum spathaceum huronense (La Rue, 1927) Hughes, 1929

Synonyms: *Diplostomum huronense* (La Rue, 1927) Hughes and Hall, 1929; *Diplostomulum huronense* (La Rue, 1927) Hughes and Hall, 1929

Site: eye

Host: Perca flavescens

Distribution: ON

Records: Tedla & Fernando 1969a: Tedla 1969; Tedla & Fernando 1972; Dechtiar & Christie 1988

*Diplostomum spathaceum indistinctum (Guberlet, 1923) Hughes, 1929

Synonyms: Diplostomum flexicaudum (Cort and Brooks, 1928); Diplostomulum flexicaudum (Cort and Brooks, 1928)
Hunter, 1942

Site: eve

Hosts: Catostomus catostomus (1, 6) Catostomus commersoni (1, 2, 3, 4,

6)
Coregonus artedii (5, 6)
Coregonus clupeaformis (4, 5, 6, 7)
Lota lota (2)
Moxostoma anisurum (3)
Moxostoma macrolepidotum (4)
Notropis atherinoides (4)
Perca flavescens (6)
Percopsis omiscomaycus (4)
Salvelinus fontinalis X Salvelinus
namaycush (6)

Distribution: AB, MB, ON
Records: 1) Bangham 1955 (ON); 2)
Fillion 1961 (AB- Cold Lake, Lac Ste.
Anne); 3) Dechtiar 1972a (ON); 4)
Dechtiar 1972b (ON); 5) Watson 1977
(MB); 6) Dechtiar & Berst 1978 (ON); 7)

		Phoxinus eos (3)	
		Pimephales promelas (5, 22)	
Diplostomum sp.		Prosopium cylindraceum (2, 3,	,
Includes: Diplostomulum sp).	11)	
_ <i>T</i>		Prosopium williamsoni (2, 8, 1	5,
Sites: central nervous syster	m, digestive	16)	,
tract, eye, musculature	, 0	Ptychocheilus oregonensis (2,	8,
Hosts: Acipenser fulvescens	(3, 5, 26, 30,	15, 16)	
32)	, , , ,	Rhinichthys cataractae (5, 32)	
Carpiodes cyprinus (21, 30, 32)	Richardsonius balteatus (2, 8,	
Catostomus catostom		16)	
11,15)	() , , ,	Salvelinus fontinalis (3, 7, 11,	19.
Catostomus commers	soni (2, 11,	20, 29, 33)	
31, 32)		Salvelinus malma (8, 15)	
Catostomus macroch	eilus (2, 8,	Salvelinus namaycush (3, 5, 8,	
15)		11, 15, 16)	
Coregonus artedii (3	, 5)	Stizostedion canadense (3, 5)	
Coregonus clupeafor		Stizostedion vitreum (3, 5, 17)	
9, 10, 11, 12, 14, 15, 16, 17, 18, 25)		Thymallus arcticus (8)	
Cottus cognatus (8, 15)		Distribution: AB, BC, LB, MB, NB, N	٧F,
Cottus ricei (23)	,	NS, ON, QC, SK	
Couesius plumbeus (2, 3, 5, 11)		Records: 1) Bangham & Hunter 1939	
Culaea inconstans (3)		(ON); 2) Bangham & Adams 1954 (BC	');
Esox lucius (3, 5, 11, 12, 31, 32)		3) Bangham 1955 (ON); 4) Threlfall &	
Etheostoma exile (5))	Hanek 1970b (LB); 5) Dechtiar 1972a	
Gasterosteus aculea	tus (2, 3, 11,	(ON); 6) Scott & Crossman 1973 (ON));
15)		7) Frantsi et al. 1975 (NS); 8)	
Lota lota (2, 5, 15, 16)		Anonymous 1978 (BC); 9) Pybus &	
Margariscus margai	rita (11)	Samuel 1978 (AB - Blue Lake, Cache	3
Moxostoma anisurui	m(31, 32)	Lake, Jarvis Lake); 10) Rau et al 1979	9
Myoxocephalus thor	npsoni (13)	(QC); 11) Curtis & Rau1980 (QC); 12))
Notropis atherinoide	es (5, 31, 32)	Samuel 1981 (AB - Jarvis Lake (E.	
Notropis hudsonius	(3, 5, 31, 32)	lucius, P. flavescens), Blue Lake, Cac	che
Oncorhynchus clark	<i>i</i> (2)	Lake, Jarvis Lake (C. clupeaformis))	
Oncorhynchus kisute	ch (2, 16)	13) Black & Lankester 1981a (ON); 14	()
Oncorhynchus mykis	ss (2, 3, 8,	Drouin 1982 (AB - McGregor Lake,	
15, 16, 24)		Travers Reservoir); 15) Arai & Mudry	y
Perca flavescens (3, 5, 12, 17,		1983 (BC); 16) Anonymous 1984 (BC)	
18, 30, 31, 32)		17) Poole & Dick 1985 (MB), 18)	
Percina caprodes (1		Samuel 1985 (AB - Blue Lake, Cache	e
Percopsis omiscomo	<i>aycus</i> (3, 5,	Lake, Jarvis Lake); 19) Frimeth 1987.	a

31, 32)

Dick & Rosen 1981 (MB)

(NB); 20) Frimeth 1987b (NB); 21) Szalai & Dick 1987a (MB); 22) Dechtiar & Christie 1988 (ON); 23) Dechtiar et al. 1988 (ON); 24) Szalai & Dick 1988 (MB); 25) Stock 1988 (AB - Jarvis Lake); 26) Choudhury et al. 1990 (MB); 27) Albert & Curtis 1991 (QC); 28) Marcogliese & Cone 1991a (LB, NB, NF, NS, QC); 29) Marcogliese & Cone 1991b (NF); 30) Szalai & Dick 1991a (MB); 31) Szalai et al. 1992 (MB); 32) Choudhury & Dick 1993 (MB, SK); 33) Dubois et al. 1996 (QC)

*Tylodelphys scheuringi (Hughes, 1929) Dubois, 1938

Synonym: *Diplostomum scheuringi* Hughes, 1929

Site: eye

Hosts: Catostomus macrocheilus (8, 9) Coregonus clupeaformis (9) Lota lota (2, 8, 9) Oncorhynchus mykiss (8, 9, 11) Perca flavescens (1, 3, 4, 5, 6, 7,

13)

Percina caprodes (6, 10)

Percopsis omiscomaycus (12)

Prosopium williamsoni (8, 9)

Ptychocheilus oregonensis (9)

Rhinichthys cataractae (6)

Richardsonius balteatus (9)

Stizostedion vitreum (6)

Distribution: AB, BC, MB, ON
Records: 1) Bangham & Hunter 1939
(ON); 2) Fillion 1961 (AB - Lac Ste
Anne); 3) Tedla & Fernando 1969a (ON);
4) Tedla 1969 (ON); 5) Tedla & Fernando 1972 (ON); 6) Dechtiar 1972a (ON); 7)
Molnar et al. 1974 (ON); 8) Anonymous 1981 (BC); 9) Anonymous 1984 (BC);

10) Dechtiar & Christie 1988 (ON); 11)
Szalai & Dick 1988 (MB); 12) Dechtiar et al. 1989 (ON); 13) Zelmer 1994 (AB - Beta Lake, Burntstick Lake, Carburn Pond, Coal Lake, Elkwater Lake, Fincastle Lake, Garner Lake, Hastings Lake, Joker Lake, Pigeon Lake, Pine Lake, Rattlesnake Lake, Sherburne Lake, Spruce Coulee Reservoir, Sylvan Lake); 14) Zelmer & Arai 1998 (AB - Garner Lake)

FAMILY STRIGEIDAE

*Apatemon gracilis (Rudolphi, 1819) Szidat,1928

Synonym: Apatemon gracilis pellucidus (Yamaguti, 1933) Dubois, 1953

Sites: central nervous system, coelom,

eye, gills, musculature

Hosts: Culaea inconstans (3, 4, 6, 7)
Gasterosteus aculeatus (1)
Perca flavescens (8)
Pungitius pungitius (2, 5)

Distribution: AB, BC, QC
Records: 1) Lester 1975 (BC); 2) Leong
1975 (AB - Cold Lake); 3) Rau &

Gordon 1977 (QC); 4) Rau & Gordon 1978 (QC); 5) Leong & Holmes 1981 (AB - Cold Lake); 6) Gordon & Rau 1982a (QC); 7) Gordon & Rau 1982b (QC); 8) Zelmer 1994 (AB - Rattlesnake Reservoir, Shelbourne Reservoir)

*Ichthyocotylurus erraticus (Rudolphi, 1809) Niewiadomska, 1971 Synonyms: Cotylurus erraticus (Rudophi, 1809) Szidat, 1928;

1928; Tetracotyle intermedia Hughes, 1928 mesenteries, pericardium Sites: Catostomus commersoni (2) Hosts: Coregonus artedii (1, 4, 5, 6, 7, 8, 10, 11, 12, 13) Coregonus clupeaformis (1, 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14) Oncorhynchus mykiss (12) Perca flavescens (2) Percopsis omiscomaycus (2, 11) Prosopium cylindraceum (12, 13) Pungitius pungitius (4, 8) Salvelinus fontinalis (13) Salvelinus fontinalis X Salvelinus namaycush (2, 6, 11)

Distribution: AB, MB, ON Records: 1) Dechtiar 1972a (ON); 2) Collins & Dechtiar 1974 (ON); 3) Leong & Holmes 1974a (AB - Cold Lake); 4) Leong 1975 (AB - Cold Lake); 5) Watson 1977 (MB); 6) Dechtiar & Berst 1978 (ON); 7) Watson & Dick 1979 (MB); 8) Leong & Holmes 1981 (AB -Cold Lake); 9) Pybus & Samuel 1981 (AB - Wabamun Lake); 10) Dechtiar & Christie 1988 (ON); 11) Dechtiar et al. 1988 (ON); 12) Dechtiar & Lawrie 1988 (ON) 13) Dechtiar & Nepszy 1988 (ON); 14) Dechtiar et al. 1989 (ON)

*Ichthyocotylurus pileatus (Rudolphi, 1802) Niewiadomska, 1971

Synonym: *Tetracotyle diminuta* Hughes, 1928

Site: mesenteries

Hosts: Perca flavescens (2, 3, 4, 5) Percopsis omiscomaycus (1, 3) Stizostedion vitreum (4) Distribution: ON

Records: 1) Bangham & Hunter 1939; 2) Tedla & Fernando 1972; 3) Dechtiar & Christie 1988; 4) Dechtiar & Lawrie 1988; 5) Dechtiar & Nepszy 1988

*Ichthyocotylurus platycephalus (Creplin, 1825) Niewiadomska, 1971

Cotylurus communis Synonym: (Hughes, 1928) La Rue, 1932 liver, mesenteries, pericardium Sites: Catostomus catostomus (2, 3, 4) Hosts: Catostomus commersoni (2) Catostomus macrocheilus (3, 4) Oncorhynchus kisutch (3) Percopsis omiscomaycus (2) Phoxinius neogaeus (1, 2) Prosopium williamsoni (3, 4) Ptychocheilus oregonensis (3, 4) Stizostedion canadense (2) Stizostedion vitreum (2)

Distribution: BC, ON Records: 1) Bangham & Hunter 1939 (ON); 2) Dechtiar 1972a (ON); 3) Anonymous 1981 (BC); 4) Anonymous 1984 (BC)

* Tetracotyle sp.

Synonyms: Diplostomum parvula
Stafford, 1904; Tetracotyle
parvula (Stafford, 1904) Mataré,
1909
Sites: heart, kidneys, mesenteries,
musculature, pericardium
Hosts: Carpiodes cyprinus (27)
Catostomus catostomus (3, 13, 18,
29)
Catostomus commersoni (2, 11,

13, 16, 18, 26, 27, 29, 33) Salvelinus malma (3, 13, 18) Catostomus macrocheilus (3, 13, Salvelinus namaycush (12, 13, 18) Stizostedion canadense (9) 17) Stizostedion vitreum (5, 14, 24, Coregonus artedii (33) 27) Coregonus clupeaformis (12, 13, Thymallus arcticus (12, 13, 18) 17, 18, 22, 27) Cottus cognatus (13, 18, 24, 29) Distribution: AB, BC, MB, NF, ON, YT Cottus ricei (25) Records: 1) Bangham & Hunter 1939 Couesius plumbeus (3, 24) (ON); 2) Bangham 1941 (ON); 3) Culaea inconstans (3, 8, 10, 25, Bangham & Adams 1954 (BC); 4) 29) Bangham 1955 (ON); 5) Ryder 1963 (AB - Iosegun Lake); 6) Sandeman & Esox lucius (8, 24, 25, 33) Etheostoma exile (1, 4, 8, 11, 23) Pippy 1967 (NF); 7) Paetz & Nelson Gasterosteus aculeatus (3) 1970 (AB - unspecified); 8) Dechtiar Hiodon tergisus (1) 1972a (ON); 9) Dechtiar 1972b (ON); Hybognathus hankinsoni (11) 10) Molnar et al. 1974 (ON); 11) Arthur Lota lota (8, 12, 23, 25, 26) et al 1976 (YT); 12) Anonymous 1978 Margariscus margarita (29) (BC); 13) Anthony 1978b (ON); 14) Moxostoma anisurum (33) Pybus & Samuel 1978 (AB - Cache Notropis hudsonius (1, 4, 8, 24, Lake); 15) Chan 1980 (ON); 16) Samuel 25, 26) 1981 {AB - Cache Lake, Jarvis Lake, Oncorhynchus mykiss (13, 18, 21, (C. clupeaformis, P. flavescens), Blue 25) Lake, Gregg Lake, (C. clupeaformis)]; Perca flavescens (4, 7, 8, 14, 15, 17) McCart et al. 1982 (AB - Lake 16, 18, 31, 32, 33) Athabasca, Athabasca River); 18) Arai Percina caprodes (1) & Mudry 1983 (BC); 19) Cone & Ryan Percopsis omiscomaycus (4, 26, 1984 (NF); 20) Anonymous 1984 (BC); 29, 33) 21) Samuel 1985 [AB - Blue Lake, Phoxinus eos (4) Gregg Lake (C. clupeaformis), Cache Phoxinus neogaeus (29) Lake, Jarvis Lake, (C. clupeaformis, P. Prosopium cylindraceum (12, 25) flavescens)]; 22) Anthony 1987 (ON); Prosopium williamsoni (3, 13, 18, 23) Dechtiar & Christie 1988 (ON); 24) 21) Dechtiar et al. 1988 (ON); 25) Dechtiar & Pungitius pugitius (8) Lawrie 1988 (ON); 26) Dechtiar & Rhinichthys cataractae (3, 8, 13, Nepszy 1988 (ON); 27) Stock 1988 18) (AB- Jarvis Lake); 28) Dechtiar et al. Richardsonius balteatus (3, 13, 1989 (ON); 29) Marcogliese & Cone 18) 1991b (NF); 30) Szalai & Dick 1991 Salvelinus fontinalis (6, 20, 24, (MB); 31) Nelson & Paetz 1992 (AB -30, 34) unspecified); 32) Szalai et al. 1992 (MB); Salvelinus fontinalis X Salvelinus 33) Dubois et al. 1996 (QC) namaycush (29)

*Strigeidae gen. sp.

Sites: central nervous system, liver, mesenteries, musculature, subcutaneous

Hosts: Etheostoma exile (2)
Notropis atherinoides (2)
Oncorhynchus kisutch (7)
Perca flavescens (3, 4, 6)
Percina caprodes (2)
Prosopium williamsoni (6, 7)
Ptychocheilus oregonensis (5, 7)
Salvelinus fontinalis (1)

Distribution: BC, MB, NB, ON, QC Records: 1) Ricker 1932 (ON); 2) Bangham & Hunter 1939 (ON); 3) Lyster 1940a (QC); 4) McLeod 1943 (MB); 5) Anonymous 1981 (BC); 6) Pike & Burt 1981 (NB); 7) Anonymous 1984 (BC)

SUPERFAMILY BRACHYLAEMOIDEA

FAMILY BUCEPHALIDAE

Bucephalus elegans Woodhead, 1929

Site: pyloric caeca Host: Perca flavescens Distribution: ON

Records: Bangham 1941; Bangham 1955

*Bucephalus sp.

Sites: digestive tract, coelom
Hosts: Catostomus catostomus (5)
Catostomus commersoni (6)
Hiodon alosoides (2)
Notropis hudsonius (1, 7)
Stizostedion vitreum (6)

Distribution: MB, ON

Records: 1) Bangham 1955 (ON); 2) Kennedy & Sprules 1967 (MB); 3) Dechtiar 1972b (ON); 4) Dechtiar & Christie 1988 (ON); 5) Dechtiar & Lawrie 1988 (ON); 6) Dechtiar & Nepszy 1988 (ON); 7) Dechtiar et al. 1988 (ON)

Paurorhynchus hiodontis Dickerman, 1954

Sites: coelom, gills, heart

Hosts: *Hiodon alosoides* (1, 2, 4) *Hiodon tergisus* (3)

Distribution: AB, MB, SK

Records: 1) Margolis 1964 (SK); 2)

Donald & Kooyman 1974 (AB - Chenal des Quatre Fourches, Mamawi Lake);
3) Glenn 1980 (MB); 4) Szalai et al. 1992 (MB)

Prosorhynchus ozakii (Nagaty, 1937) Margolis and Arthur, 1979

Synonym: Bucephaloides ozakii Nagaty, 1937

Site: intestine

Host: Salvelinus malma
Distribution: BC

Record: Bangham & Adams 1954

Prosorhynchus pusilla (Stafford, 1904) Margolis and Arthur, 1979

Synonyms: Gasterostomum pusillum Stafford, 1904; Bucephalus pusilla (Stafford, 1904); Bucephalopsis pusilla (Stafford, 1904) Eckmann, 1932 Sites: intestine, pyloric caeca, stomach

Hosts: Perca flavescens (8)

Stizostedion canadense (4, 7) Stizostedion vitreum (1, 2, 3, 4, 5, 6, 8, 9, 10)

Distribution: MB, ON, QC

Records: 1) Stafford 1904 (QC); 2)
Woodhead 1930 (ON); 3) Lyster 1939
(QC); 4) Bangham & Hunter 1939 (ON);
5) Bangham 1955 (ON); 6) Dickson 1964
(MB); 7) Dechtiar 1972a (ON); 8) Poole
& Dick 1985 (MB); 9) Dechtiar &
Christie 1988 (ON); 10) Dechtiar et al.
1988 (ON)

*Rhipidocotyle papillosa (Woodhead, 1929) Eckmann, 1932

Includes: Gasterostomum pusillum of

Cooper (1915a)
Site: musculature
Host: Perca flavescens
Distribution: ON

Record: Cooper 1915a

Rhipidocotyle papillosa (Woodhead, 1929) Eckmann, 1932

Includes: Gasterosomum pusillum of Cooper (1915a)

Site: [digestive tract]
Hosts: Perca flavescens
Stizostedion vitreum

Distribution: MB

Record: Poole & Dick 1985

*Rhipidocotyle sp.

Site: subcutaneous (fins)
Host: Hybognathus hankinsoni

Distribution: ON

Record: Molnar et al. 1974 (ON)

ORDER HEMIURIFORMES

SUPERFAMILY HEMIUROIDEA

FAMILY AZYGIIDAE

Azygia angusticauda (Stafford, 1904) Manter, 1926

Synonyms: Mimodistomum angusticaudum Stafford, 1904; Ptychogonimus fontanus Lyster, 1939

Site: digestive tract

Hosts: Catostomus commersoni (17) Esox lucius (12, 15, 16, 19, 21,

24)
Etheostoma exile (11, 15, 17)
Lota lota (1, 15, 20, 23)
Perca flavescens (3, 4, 6, 8, 9, 10,

11, 13, 14, 18, 22)

Salvelinus fontinalis (4)

Salvelinus namaycush (7)

Stizostedion vitreum (1, 2, 5, 14, 15, 18, 21, 24)

Distribution: ON, QC

Records: 1) Stafford 1904 (QC); 2)
Bangham & Hunter 1939 (ON); 3) Lyster
1939 (QC); 4) Lyster 1940 (QC); 5)
Miller 1940b (QC); 6) Bangham 1941
(ON); 7) MacLulich 1943b (ON); 8)
Bangham & Venard 1946 (ON); 9)
Fantham & Porter 1948 (QC); 10)
Choquette 1951c (QC); 11) Bangham
1955 (ON); 12) Crossman 1962 (ON);
13) Tedla 1969 (ON); 14) Tedla &
Fernando 1972 (ON); 15) Dechtiar 1972a

(ON); 16) Dechtiar 1972b (ON); 17) Molnar et al. 1974 (ON); 18) Anthony 1978b (ON); 19) Anthony 1983 (ON); 20) Anthony 1987 (ON); 21) Dechtiar & Christie 1988 (ON); 22) Dechtiar et al. 1988 (ON); 23) Dechtiar & Lawrie1988 (ON); 24) Dechtiar & Nepszy 1988 (ON)

SUBFAMILY LEUCERUTHRINAE

Stizostedion vitreum

ON

Anthony 1976

not specified

Azygia longa (Leidy, 1851) Stafford, 1904;

Synonyms: *Megadistomum longa* (Leidy, 1851) Stafford, 1904; *Azygia acuminata* Goldberger, 1911

Site: digestive tract

Hosts: Acipenser fulvescens (17) Esox lucius (1, 2, 3, 4, 5, 7, 9, 13,

16)

Hiodon alosoides (16) Lota lota (1, 10) Perca flavescens (2, 8, 15, 16) Salvelinus fontinalis (6, 11, 12, 14) Salvelinus namaycush (2) Stizostedion vitreum (2)

Distribution: MB, NB, NF, ON, QC 1) Stafford 1904 (QC); 2) Records: Cooper 1915 (ON); 3) Lyster 1939 (QC); 4) Fantham & Porter 1948 (QC); 5) Bangham 1955 (ON); 6) Sandeman & Pippy 1967 (NF); 7) Dechtiar 1972a (ON); 8) Anthony 1978b (ON); 9) Anthony 1983 (ON); 10) Anthony 1987 (ON); 11) Frimeth 1987a (NB); 12) Frimeth 1987b (NB); 13) Dechtiar et al. 1988 (ON); 14) Marcogliese & Cone 1991b (NF); 15) Szalai & Dick 1991 (MB); 16) Szalai et al. 1992 (MB); 17) Choudhury & Dick 1993 (MB)

Azygia sp.

*Leuceruthrus micropteri Marshall and Gilbert, 1905

Site: digestive tract
Hosts: Hiodon tergisus
Perca flavescens
Percina caprodes

Distribution: ON

Site:

Host:

Distribution:

Record:

Record: Bangham & Hunter 1939

Leuceruthrus micropteri Marshall and Gilbert, 1905

Site: digestive tract
Hosts: Notropis atherinoides
Notropis hudsonius

Distribution: ON

Record: Bangham & Hunter 1939

SUPERFAMILY SCHISTOSOMATOIDEA

FAMILY SANGUINICOLIDAE

Sanguinicola occidentalis Van Cleave and Mueller, 1932

Site: circulatory system

Hosts: Perca flavescens (1, 7, 8)

Stizostedion vitreum (1, 2, 3, 4, 5,

6, 7)

Distribution: ON

Records: 1) Dechtiar 1972b; 2) Anthony 1976; 3) Anthony 1978b; 4) Dechtiar & Christie 1988; 5) Dechtiar et al. 1988; 6) Dechtiar & Lawrie 1988; 7) Dechtiar & Nepszy 1988; 8) Dechtiar et al. 1989

Sanguinicola sp.

Site: circulatory system

Hosts: Carpiodes cyprinus (2, 5)
Catostomus catostomus (3, 4)

Catostomus commersoni (3, 5, 6)

Moxostoma anisurum (1)

Moxostoma macrolepidotum (2)

Notropis hudsonius (2, 4) Pimephales promelas (1)

Distribution: ON

Record: 1) Dechtiar 1972a; 2) Dechtiar 1972b; 3) Dechtiar et al. 1988; 4)
Dechtiar & Lawrie 1988; 5) Dechtiar &

Nepszy 1988; 6) Dechtiar et al. 1989

Sanguinicolidae gen. sp.

Site: circulatory system

Host: Catostomus catostomus

Distribution: BC

Records: Anonymous 1981; Anonymous

1984

ORDER PLAGIORCHIIFORMES

SUBORDER ALLOCREADIATA

SUPERFAMILY ALLOCREADIOIDEA

FAMILY ALLOCREADIDAE

Allocreadium lobatum Wallin, 1909

Synonyms: Distomum isoporum (Looss, 1894) Odhner, 1901 = Distomum isoporum Looss, 1894; Allocreadium isoporum (Looss, 1894) Odhner, 1901

Site: intestine

Hosts: Catostomus catostomus (1, 5)

Catostomus commersoni (4, 10)

Couesius plumbeus (1, 3)

Esox lucius (6)

Notropis hudsonius (2, 12)

Oncorhynchus mykiss (1)

Phoxinus eos (8, 13)

Pimephales promelas (4)

Prosopium williamsoni (1)

Pychocheilus oregonensis (1, 7, 8,

Rhinichthys cataractae (1)

Thymallus arcticus (6)

Distribution: BC, LB, NB, ON, QC, YT

Records: 1) Bangham & Adams 1954 (BC); 2) Bangham 1955 (ON); 3)

Threlfall & Hanek 1971 (LB); 4) Dechtiar 1972a (ON); 5) Hanek & Molnar 1974

(QC); 6) Arthur et al. 1976 (YT); 7)

Anonymous 1978 (BC); 8) Arai & Mudry

1983 (BC); 9) Anonymous 1984 (BC); 10) Courtney 1987 (ON); 11) Dechtiar et

al. 1988 (ON); 12) Dechtiar & Lawrie

1988 (ON); 13) Dubois et al. 1996 (QC)

Allocreadium sp.

Site: intestine

Host: Etheostoma exile

Distribution: ON

Record: Bangham & Hunter 1939

Bunodera eucaliae (Miller, 1936) Miller, 1936

Synonym: Bunoderina eucaliae Miller, 1936

Site: intestine

Hosts: Culaea inconstans (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)

Gasterosteus aculeatus (4, 8) Pungitius pungitius (6)

Distribution: BC, ON, QC

Records: 1) Miller 1936 (QC); 2)
Bangham & Hunter 1939 (ON); 3) Miller
1940b (QC); 4) Bangham & Adams 1954
(BC); 5) Bangham 1955 (ON); 6)
Dechtiar 1972a (ON); 7) Kakonge 1972
(ON); 8) Dechtiar & Christie 1988 (ON);
9) Dechtiar et al. 1988 (ON); 10) Dechtiar
et al. 1989 (ON); 11) Caira 1989 (BC,
ON, QC); 12) Brooks 1992 (ON)

Bunodera luciopercae (Müller, 1776) Lühe, 1909

Synonym: Distomum nodulosum (Frölich, 1791)

Site: intestine

Hosts: Acipenser fulvescens (1)
Esox lucius (8, 12)
Gasterosteus aculeatus (11)
Oncorhynchus mykiss (19, 20, 22)
Perca flavescens (3, 4, 6, 7, 9, 13,

14, 15, 16, 23)

Prosopium cylindraceum (17) Pungitius pungitius (10, 18, 21) Salvelinus malma (18) Salvelinus namaycush (17)

Distribution: AB, BC, LB, NF, ON, QC Records: 1) MacCallum 1895 (ON); 2) Stafford 1902 (QC); 3) Bangham & Hunter 1939 (ON); 4) Fantham & Porter

1948 (QC); 5) Sandeman & Pippy 1967 (NF); 6) Tedla & Fernando 1969a (ON); 7) Tedla 1969 (ON); 8) Threlfall & Hanek 1970b (LB); 9) Tedla & Fernando 1972 (ON); 10) Hanek & Threlfall 1970b (NF); 11) Hanek & Threlfall 1970a (LB, NF); 12) Threlfall & Hanek 1970b (LB); 13) Cannon 1970 (ON); 14) Cannon 1971 (ON); 15) Cannon 1972 (ON); 16) Cannon 1973 (ON); 17) Hicks & Threlfall 1973 (LB); 18) Leong 1975 (AB - Cold Lake); 19) Mudry & Anderson [AB -Amethyst Lake (O. mykiss, S. fontinalis), Moat Lake (O. mykiss), BC (S. fontinalis, S. malma, S. namaycush)]; 20) Anonymous 1978 (BC); 21) Leong & Holmes 1981 (AB - Cold Lake); 22) Arai & Mudry 1983 (BC); 23) Caira 1989 (AB - unspecified; NF, ON, QC); 24) Zelmer 1994 (AB - Beta Lake, Burntstick Lake, Carburn Pond, Coal Lake, Elkwater Lake, Fincastle Lake, Joker Lake, Pigeon Lake, Pine Lake, Rattlesnake Reservoir, Sherbourne Reservoir, Spruce Coulee Reservoir, Sylvan Lake); 25) Zelmer & Arai 1998 (AB - Garner Lake)

Bunodera mediovitellata Tsimbalyuk and Roytman in Skrjabin and Koval, 1966

Synonym: Allobunodera mediovitellata (Tsimbalyuk and Roytman in Skrjabin and Koval, 1966) Yamaguti, 1971

Site: intestine

Host: Gasterosteus aculeatus

Distribution: BC

Records: Lester 1975; Kennedy 1979;

Caira 1989

Bunodera sacculata Van Cleave and Mueller, 1932

Synonyms: Allobunodera sacculata (Van Cleave and Mueller, 1932) Yamaguti, 1971; Bunoderina sacculata (Van Cleave and Mueller, 1932) Yamaguti, 1958

Site: intestine

Hosts: Lota lota (10)

Perca flavescens (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Stizostedion vitreum (11, 13)

Distribution: MB, ON, QC

Records: 1) Lyster 1939 (QC); 2)
Bangham 1941 (ON); 3) Bangham &
Venard 1946 (ON); 4) Bangham 1955
(ON); 5) Tedla & Fernando 1969a (ON);
6) Tedla 1969 (ON); 7) Cannon 1970
(ON); 8) Cannon 1971 (ON); 9) Tedla &
Fernando 1972 (ON); 10) Cannon 1972
(ON); 11) Dechtiar 1972a (ON); 12)
Cannon 1973 (ON); 13) Poole & Dick
1985 (MB); 14) Dechtiar & Christie 1988
(ON); 15) Dechtiar et al. 1988 (ON); 16)
Dechtiar & Nepszy 1988 (ON); 17) Caira
1989 (ON)

Bunodera sp.

Site: [digestive tract]
Host: Perca flavescens

Distribution: QC

Record: Fantham & Porter 1948

Crepidostomum auriculatum (Wedl, 1858) Pratt, 1902

Synonym: *Crepidostomum lintoni* (Pratt in Linton, 1901) Hopkins, 1933

Site: intestine

Hosts: Acipenser fulvescens (1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16)

Coregonus clupeaformis (13)

Perca flavescens (3)

Distribution: AB, MB, ON, QC, SK 1) Stafford 1904 (QC); 2) Records: Cooper 1915 (ON); 3) Hopkins 1934 (ON); 4) Lyster 1939 (QC); 5) Bangham & Hunter 1939 (ON); 6) Bangham 1955 (ON); 7) Dechtiar 1972a (ON); 8) Dechtiar 1972b (ON); 9) Anthony 1974 (ON); 10) Dechtiar & Christie 1988 (ON); 11) Dechtiar et al. 1988 (ON); 12) Dechtiar & Lawrie 1988 (ON); 13) Stock 1988 (AB - Jarvis Lake); 14) Choudhury et al. 1990 (MB, SK); 15) Swanson et al. 1991 (MB); 16) Choudhury & Dick 1993 (MB, SK)

Crepidostomum cooperi Hopkins, 1931

Synonyms: Crepidostomum ambloplitis
Hopkins, 1931; Crepidostomum fausti
Hunninen and Hunter, 1933

Includes: Crepidostomum laureatum of Stafford (1904) and of Cooper (1915); Bunodera nodulosa of Stafford (1904) (partim); ?Crepidostomum cornutum of Cooper (1915) (partim)

Sites: gall bladder, intestine, pyloric

caeca

Hosts: Catostomus commersoni (14, 27) Coregonus artedii (31) Coregonus clupeaformis (11, 13,

33, 34)

Etheostoma exile (3)
Gasterosteus aculeatus (20)
Perca flavescens (2, 3, 4, 5, 8, 9, 11, 13, 14, 16, 18, 19, 21, 22, 23, 24, 26, 28, 29, 32, 36, 37, 38, 39, 40, 41, 42)

Percopsis omiscomaycus (42) Prosopium cylindraceum (11) Salvelinus fontinalis (1, 2, 6, 7, 10, 12, 14, 15, 17, 25, 30, 35) Salvelinus namaycush (33) Stizostedion canadense (42) Stizostedion vitreum (42) AB, LB, MB, NF, NS, ON, Distribution: PE, QC Records: 1) Stafford 1902 (QC); 2) Stafford 1904 (QC); 3) Cooper 1915 (ON); 4) Hopkins 1931 (ON); 5) Hopkins 1934 (ON); 6) Richardson 1936 (QC); 7) Richardson 1937 (QC); 8) Bangham & Hunter 1939 (ON); 9) Lyster 1939 (QC); 10) Lyster 1940a (QC); 11) Bangham 1941 (ON); 12) Richardson 1942 (QC); 13) Bangham & Venard 1946 (ON); 14) Fantham & Porter 1948 (QC); 15) Choquette 1948a (QC); 16) Stewart-Hay 1951g (MB); 17) Choquette 1954 (QC); 18) Bangham 1955 (ON); 19) Dickson 1964 (MB); 20) Hanek & Threlfall 1969c (NF); 21) Tedla & Fernando 1969a (ON); 22) Tedla 1969 (ON); 23) Hanek & Threlfall 1969c (NF); 24) Cannon 1970 (ON); 25) Threlfall & Hanek 1970c (NF); 26) Tedla & Fernando 1972 (ON); 27) Dechtiar 1972a (ON); 28) Cannon 1972 (ON); 29) Cannon 1973 (ON); 30) Hanek & Molnar 1974 (QC); 31) Anthony 1978a (ON); 32) Anthony 1978b (ON); 33) Chinniah & Threlfall 1978 (LB); 34) Pybus & Samuel 1978 (AB - Blue Lake, Gregg Lake, Jarvis Lake); 35) Black 1981a (QC); 36) Poole & Dick 1985 (MB); 37) Dechtiar & Christie 1988 (ON); 38) Dechtiar et al. 1988 (ON); 39) Dechtiar & Nepszy 1988 (ON); 40) Caira 1989 (MB, NB, NF, NS, ON, PE, QC); 41) Szalai & Dick 1991a (MB); 42) Szalai

et al. 1992 (MB)

Crepidostomum cornutum (Osborn, 1903) Stafford, 1904

Sites: gall bladder, intestine, pyloric caeca

Hosts: Perca flavescens (2)
Salvelinus fontinalis (1)
Distribution: NS, ON, QC

Records: 1) Fantham & Porter 1948 (NS, QC); 2) Dechtiar & Lawrie 1988 (ON)

Crepidostomum farionis (Müller, 1780) Lühe, 1909

Sites: gall bladder, intestine, pyloric caeca

Hosts: Catostomus catostomus (28, 35) Catostomus commersoni (51) Coregonus artedii (15, 16, 19, 22, 26, 29, 41, 43)

Coregonus clupeaformis (3, 12, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 3

14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 33, 41)

Cottus cognatus (21, 33)
Esox lucius (19, 27)
Gasterosteus aculeatus (10, 16)
Lota lota (7, 18, 21, 33, 34)
Oncorhynchus clarki (7, 18, 30)
Oncorhynchus kisutch (7, 15, 16,

28, 29, 30, 35) Oncorhynchus mykiss (4, 6, 7, 9,

18, 21, 28, 33, 35, 42)

Perca flavescens (14, 37)

Prosopium cylindraceum (1, 3,

5, 7, 8, 17, 41, 45) Prosopium williamsoni (7, 18,

21, 28, 33, 35, 50)

Ptychocheilus oregonensis (35)

Salmo trutta (9, 11)

Salvelinus fontinalis (2, 3, 4, 5,

39, 40, 41, 44, 47, 48, 49) Salvelinus malma (7, 21, 28, 33, 35) Salvelinus namaycush (2, 3, 12, 15, 17, 18, 23, 31, 32, 34, 35, 41, 45) Thymallus arcticus (7, 17, 21, 33, 45) Distribution: AB, BC, CA, LB, MB, NB, NF, NS, NT, ON, PE, QC, YT Records: 1) Bangham 1941 (ON); 2) MacLulich 1943b (ON); 3) Bangham & Venard 1946 (ON); 4) Fantham & Porter 1948 (QC); 5) Choquette 1948a (QC); 6) Rawson 1953 (AB - Amethyst Lake); 7) Bangham & Adams 1954 (BC); 8) Bangham 1955 (ON); 9) Sandeman & Pippy 1967 (NF); 10) Threlfall 1968 (NF); 11) Threlfall & Hanek 1970c (NF); 12) Hicks & Threlfall 1973 (LB); 13) Hare & Frantsi 1974 (NS); 14) Collins & Dechtiar 1974 (ON); 15) Leong & Holmes 1974a (AB - Cold Lake); 16) Leong 1975 (AB - Cold Lake); 17) Arthur et al. 1976 (YT); 18) Mudry & Anderson 1977 [AB - Pyramid Lake (O. mykiss, S. namaycush, P. williamsoni), Moraine Lake, (O. mykiss, S. namaycush), Lower Waterton Lake, Linnet Lake, (C. clupeaformis), Upper Waterton Lake (L. lota), Edith Lake, Horseshoe Lake, Moat Lake (O. mykiss), Patricia Lake, Herbert Lake, Snowflake Lake, (O. mykiss, S. fontinalis), Mud Lake, Little Baker Lake, Temple Lake, Upper Consolation Lake, Vista Lake, Upper Twin Lake, Crandell Lake (S. fontinalis), Boom Lake, Lower Altrude Lake, Peyto Lake, (O. clarki), Lower Consolation Lake, Babel Creek) (O.

7, 9, 11, 12, 13, 18, 23, 24, 25, 36, 38,

clarki, S. fontinalis), BC (O. clarki, O. mykiss, S. fontinalis, S. malma, S. namaycush); 19) Watson 1977 (MB); 20) Dechtiar & Berst 1978 (ON); 21) Anonymous 1978 (BC); 22) Anthony 1978a (ON); 23) Chinniah & Threlfall 1978 (LB); 24) Gordon et al. 1978 (QC); 25) Thompson & Threlfall 1978 (QC); 26) Watson & Dick 1979 (MB); 27) Watson & Dick 1980 (MB); 28) Anonymous 1981 (BC); 29) Leong & Holmes 1981 (AB - Cold Lake); 30) Margolis & Moravec 1982 (BC); 31) Stewart & Bernier 1982 (NT); 32) Stewart & Bernier 1983 (NT); 33) Arai & Mudry 1983 (BC); 34) Stewart & Bernier 1984 (NT); 35) Anonymous 1984 (BC); 36) Cone & Ryan 1984 (NF); 37) Poole & Dick 1985 (MB); 38) Frimeth 1987a (NB); 39) Frimeth 1987b (NB); 40) Dechtiar et al. 1988 (ON); 41) Dechtiar & Lawrie 1988 (ON); 42) Szalai & Dick 1988 (MB); 43) Curtis 1988 (CA); 44) Baggs & McT. Cowan 1989 (NF); 45) Caira 1989 (AB - unspecified, BC, MB, NB, NF, NS, NT, ON, PE, QC); 46) Dechtiar et al. 1989 (ON); 47) Wright et al. 1989 (ON); 48) Albert & Curtis 1991 (QC); 49) Marcogliese & Cone 1991b (NF); 50) Nener et al. 1995 (BC); 51) Dubois et al. 1996 (QC)

Crepidostomum illinoiense Faust, 1918

Synonym: *Crepidostomum hiodontos* Hunter and Bangham, 1932

Site: intestine

Hosts: Hiodon alosoides (5)
Hiodon tergisus (1, 3, 4)
Perca flavescens (2)

Distribution: MB, ON

Records: 1) Hunter & Bangham 1932 (ON); 2) Hopkins 1934 (ON); 3) Bangham & Hunter 1939 (ON); 4) Glenn 1980 (MB); 5) Szalai et al. 1992 (MB)

Crepidostomum isostomum Hopkins, 1931

Synonym: *Crepidostomum canadense* Hopkins, 1931

Includes: Crepidostomum laureatum of Cooper (1915) (partim)

Sites: gall bladder, intestine, pyloric

caeca

Hosts: Etheostoma exile (1)
Perca flavescens (3, 9)
Percina caprodes (5, 6)
Percopsis omiscomaycus (2, 4, 5, 6, 7, 8)

Distribution: AB, ON, QC
Records: 1) Cooper 1915 (ON); 2)
Bangham & Hunter 1939 (ON); 3) Lyster
1940a (QC); 4) Bangham 1955 (ON); 5)
Dechtiar 1972a (ON); 6) Dechtiar &
Christie 1988 (ON); 7) Dechtiar et al.
1988 (ON); 8) Dechtiar & Lawrie 1988
(ON); 9) Zelmer (AB - Beta Lake,
Burnstick Lake, Carburn Pond, Coal
Lake, Elkwater Lake, Fincastle Lake,
Joker Lake, Pigeon Lake, Pine Lake,
Rattlesnake Lake, Sherburne Lake,

Spruce Coulee Reservoir, Sylvan Lake)

Crepidostomum metoecus (Braun, 1900) Braun, 1900

Sites: intestine, pyloric caeca
Hosts: Coregonus clupeaformis (1)
Cottus cognatus (1)
Esox lucius (1)
Oncorhynchus clarki (2)

Salvelinus namaycush (1) Thymallus arcticus (1, 3)

Distribution: BC, YT

Records: 1) Arthur et al. 1976 (YT); 2) Margolis & Moravec 1982 (BC); 3) Caira 1989 (BC, YT)

Crepidostomum percopsisi Nelson, Choudhury and Dick, 1997

Site: intestine

Host: Percopsis omiscomaycus

Distribution: MB

Record: Nelson et al. 1997

Crepidostomum sp.

Sites: gall bladder, intestine, pyloric

caeca

Hosts: Acipenser fulvescens (5)
Catostomus commersoni (2)
Coregonus clupeaformis (8, 9, 10)
Cottus cognatus (12)

Hiodon alosoides (4) Lota lota (3, 11) Margariscus margarita

Margariscus margarita (1) Oncorhynchus mykiss (8) Perca flavescens (7) Salvelinus fontinalis (2)

Stizostedion vitreum (6, 7) Thymallus arcticus (3)

Distribution: AB, BC, MB, ON, QC
Records: 1) Bangham & Venard
1946 (ON); 2) Fantham & Porter 1948
(QC); 3) Bangham & Adams 1954 (BC);
4) Kennedy & Sprules 1967 (MB); 5)
Anthony 1974 (ON); 6) Anthony 1976
(ON); 7) Anthony 1978b (ON); 8) Pybus
& Samuel 1978 [AB - Gregg Lake,
Jarvis Lake (C. clupeaformis), Hardisty

Creek (O. mykiss)]; 9) Samuel 1981 (AB - Blue Lake, Gregg Lake, Jarvis Lake); 10) Samuel 1985 (AB - Blue Lake, Gregg Lake, Jarvis Lake); 11) Anthony 1987 (ON); 12) Dechtiar et al. 1989 (ON)

Creptotrema funduli Mueller, 1934

Includes: ?Allocreadium commune of Cooper (1915a) (partim)

Site: intestine

Hosts: Catostomus commersoni (1)
Perca flavescens (2, 3)
Stizostedion canadense (3)
Stizostedion vitreum (3)

Distribution: MB, ON

Records: 1) Cooper 1915 (ON); 2) Szalai & Dick 1991a (MB); 3) Szalai et al.1992 (MB)

Culaeatrema inconstans Lasee, Font and Sutherland, 1988

Synonym: Bunodera inconstans (Lasee, Font and Sutherland, 1988) Brooks, 1992

Site: intestine

Host: Culaea inconstans
Distribution: (ON)

Records: Brooks 1992; McLennan &

Shires 1995

Megalonia ictaluri Surber, 1928

Synonym: Crepidostomum ictaluri (Surber, 1928) Van Cleave and Mueller 1934

1934

Site: intestine
Host: Noturus flavus

Distribution: ON

Records: Bangham & Hunter 1939; Dechtiar & Christie 1988

Plagiocirrus sp.

Site: unspecified

Host: Catostomus catostomus

Distribution: BC

Record: Bangham & Adams 1954

Allocreadiidae gen. sp.

Site: intestine

Hosts: Acipenser fulvescens (1) Noturus flavus (4)

Salvelinus fontinalis (2, 3)

Distribution: LB, NF, ON

Records: 1) Bangham & Hunter 1939 (ON); 2) Frost 1940 (NF); 3) Hicks & Threlfall 1973 (LB); 4) Dechtiar & Christie 1988 (ON)

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ORDER LEPOCREADIIFORMES

SUPERFAMILY LEPOCREADIOIDEA

FAMILY DEROPRISTIDAE

Deropristis hispida (Abilgaard in Rudolphi, 1819) Odhner, 1902

Site: intestine

Host: Acipenser fulvescens

Distribution: QC

Record: Stafford 1904

Skrjabinopsolus manteri (Cable, 1950) Cable, 1955

Site: intestine

Acipenser fulvescens Host:

Distribution: ON

Anthony 1974; Dechtiar & Records: Christie 1988: Dechtiar et al. 1988:

Dechtiar & Lawrie 1988

FAMILY HOMALOMETRIDAE

Homalometron armatum (MacCallum, 1895) Manter, 1947

Synonyms: Distomum isoporum var. armatum MacCallum, 1895; Anallocreadium armatum (MacCallum, 1895); Anallocreadium pearsei Hunter & Bangham, 1932

Site: intestine

Acipenser fulvescens Host:

Distribution: ON

Record: MacCallum 1895

ORDER OPISTHORCHIIFORMES

SUPERFAMILY OPISTHORCHOIDEA

FAMILY CRYPTOGONIMIDAE

Acetodextra amiuri (Stafford, 1900) Pearse, 1924

Monodistomum amiuri Synonym:

Stafford, 1900

Site: gonads

Host:

Noturus flavus Distribution: ON

Record: Dechtiar 1972b

*Caecincola sp.

Site: digestive tract, eye Perca flavescens Host: Distribution: MB

Record: Szalai & Dick 1991a, Szalai et

al. 1992

*Centrovarium lobotes (MacCallum, 1895) Stafford, 1904

Distomum lobotes Synonym:

MacCallum, 1895

Esox lucius (6) Hosts:

> Notropis atherinoides (7) Notropis hudsonius (1, 2, 5, 7) Percopsis omiscomaycus (3, 4, 7) Stizostedion vitreum (6)

Distribution: MB, ON

Records: 1) Stewart-Hay 1951f (MB); 2) Dechtiar 1972b (ON); 3) Dechtiar &

Christie 1988 (ON); 4) Dechtiar et

al. 1988 (ON); 5) Dechtiar & Lawrie 1988 (ON); 6) Dechtiar & Nepszy 1988 (ON);

7) Szalai et al. 1992 (MB)

Centrovarium lobotes (MacCallum 1895) Stafford, 1904

Distomum lobotes Synonym:

MacCallum, 1895

Sites: intestine, pyloric caeca

Esox lucius (2, 3, 5, 9, 12, 14, 17, Hosts:

19)

Notropis hudsonius (6, 16) Perca flavescens (1, 10, 13, 16,

18,19)

Percopsis omiscomaycus (4, 19) Stizostedion canadense (4, 7, 10,

19)

Stizostedion vitreum (1, 2, 3, 4, 5, 6, 11, 13, 17, 19)

Distribution: MB, ON, QC

Records: 1) MacCallum 1895 (ON); 2)
Stafford 1904 (QC); 3) Lyster 1939 (QC);
4) Bangham & Hunter 1939 (ON); 5)
Miller 1941 (QC); 6) Stewart-Hay 1951b
(MB); 7) Bangham 1955 (ON); 8)
Dickson 1964 (MB); 9) Dechtiar 1972b
(ON); 10) Dechtiar 1972a (ON); 11)
Anthony 1976 (ON); 12) Watson 1977
(MB); 13) Anthony 1978b (ON); 14)
Watson & Dick 1980 (MB); 15) Anthony
1983 (ON); 16) Dechtiar et al. 1988
(ON); 17) Dechtiar & Nepszy 1988
(ON); 18) Szalai & Dick 1991a (MB); 19)
Szalai et al. 1992 (MB)

*Crytogoniumus chili Osborn, 1903

Site: musculature

Host: Notropis hudsonius

Distribution: ON

Record: Cooper 1915a

Cryptogonimus chili Osborn, 1903

Sites: intestine, pyloric caeca, stomach

Hosts: Notropis hudsonius (1)
Perca flavescens (2)

Distribution: ON

Records: 1) Cooper 1915; 2) Bangham

& Hunter 1939

FAMILY HETEROPHYIDAE

*Apophallus brevis Ransom, 1920

Synonym: *Apophallus itascensis* Warren, 1953

Includes: Distomum sp. of Cooper (1915)

Sites: fins, gills, musculature, subcutaneous

Hosts: Etheostoma exile (8, 19)
Gasterosteus aculeatus (12)
Notropis hudsonius (17)
Perca flavescens (1, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,

24, 25)

Prosopium cylindraceum (11)

Salmo trutta (3, 7)

Salvelinus fontinalis (2, 3, 4, 5, 6,

7)

Distribution: EXP, MB, NB, NF, NS, ON, QC, SK

Records: 1) Cooper 1915 (ON); 2) Miller 1941 (QC); 3) Miller 1942 (QC); 4) Cameron 1945 (QC); 5) Cameron 1947 (QC); 6) Crossman 1962 (ON); 7) Sandeman & Pippy 1967 (NF); 8) Dechtiar 1972a (ON); 9) Dechtiar 1972b (ON); 10) Sinclair 1972a (ON); 11) Sinclair 1972b (MB, ON, SK); 12) Hanek & Molnar 1974 (QC); 13) Pike & Burt 1981 (NB); 14) Pike & Burt 1982 (NB); 15) Pike & Burt 1983 (NB); 16) Pike et al. 1983 (NB); 17) Poole & Dick 1983 (MB); 18) Poole & Dick 1985 (MB); 19) Dechtiar & Christie 1988 (ON); 20) Dechtiar et al. 1988 (ON); 21) Dechtiar & Lawrie 1988 (ON); 22) Dechtiar & Nepszy 1988 (ON); 23) Dechtiar et al. 1989 (ON); 24) Taylor et al. 1993 (EXP)

*Apophallus imperator Lyster, 1940

Includes: Apophallus brevis of Miller (1941); Apophallus brevis of Cameron (1945); Apophallus sp. of Lyster (1940)

Sites: fins, subcutaneous Host: Salvelinus fontinalis

Distribution: NB, NF, NS, ON, QC
Records: Lyster 1940b (QC); Miller
1941 (QC); Cameron 1945 (QC); Sinclair
1972a (ON, QC); Hare & Frantsi 1974
(NB); Cone & Ryan 1984 (NF); Dechtiar
et al. 1989 (ON); Marcogliese & Cone
1991b (NF)

*Apophallus venustus (Ransom, 1920) Cameron, 1936

Site: musculature

Hosts: Catostomus commersoni (1, 2)

Esox lucius (1, 2)

Moxostoma macrolepidotum (2) Perca flavescens (1, 2, 3, 4, 5) Stizostedion vitreum (1, 2)

Distribution: ON. QC

Records: 1) Cameron 1937 (QC); 2) Cameron 1945 (QC); 3) Tedla & Fernando 1969a (ON); 4) Tedla 1969 (ON); 5) Tedla & Fernando 1972 (ON)

*Apophallus sp.

Site: subcutaneous

Hosts: Perca flavescens (4)

Salvelinus fontinalis (1, 2, 3, 5) Salvelinus namaycush (3)

Distribution: ON, QC

Records: 1) Lyster 1940a (QC); 2) MacLulich 1943b (QC); 3) Bangham & Venard 1946 (ON); 4) Anthony 1978b (ON); 5) Dubois et al. 1996 (QC)

?Heterophyes sp.

Site: unspecified
Host: Hiodon alosoides
Distribution: MB

Record: Kennedy & Sprules 1967

*Heterophyidae gen. sp.

Sites: gills, musculature, subcutaneous

Hosts: Cottus cognatus (2)
Salvelinus fontinalis (1)

Distribution: NF, YT

Records: 1) Frost 1940 (NF); 2) Arthur

et al. 1976 (YT)

FAMILY OPISTHORCHIDAE

*Amphimerus elongatus Gower, 1938

Sites: fins, musculature

Host: Catostomus commersoni

Distribution: QC

Record: Cameron 1944

*Amphimerus pseudofelineus (Ward, 1901) Barker, 1911

Synonym: Opisthorchis pseudofelineus

Ward, 1901 Site: musculature

Host: Catostomus commersoni

Distribution: MB

Records: Evans 1963a; Evans 1963b

*Metorchis conjunctus (Cobbold, 1860) Looss, 1899

Site: musculature

Hosts: Catostomus catostomus (4, 8) Catostomus commersoni (1, 2, 3, 5,

6, 7, 8)

Perca flavescens (5) Salvelinus fontinalis (8)

Distribution: AR, MB, ON, QC, SK Records: 1) Cameron 1940 (MB, ON, QC, SK); 2) Cameron 1944 (QC); 3) Cameron 1945 (QC); 4) Rawson 1960 (SK); 5) Evans 1963b (MB); 6) Cameron & Choquette 1963 (AR); 7) Eaton 1975 (SK); 8) Watson 1981 (QC)

Opisthorchis sp.

Site: intestine
Host: Esox lucius
Distribution: ON

Record: Cushing & Bacal 1932

*Parametorchis complexus (Stiles and Hassall, 1894) Skrjabin, 1913

Synonyms: Parametorchis manitobensis Allen and Wardle, 1934; Parametorchis novaeboracensis Hung, 1926

Host: ?Catostomus commersoni

Distribution: MB

Record: Allen & Wardle 1934

SUBORDER PLAGIORCHIATA

SUPERFAMILY GORGODEROIDEA

FAMILY GORGODERIDAE

Phyllodistomum coregoni Dechtiar, 1966

Sites: ureters, urinary bladder

Hosts: Coregonus clupeaformis (1, 2, 3, 4, 5, 6, 7, 8, 9)

Prosopium cylindraceum (5)

Distribution: AB, LB, ON

Record: 1) Dechtiar 1966 (ON); 2)

Dechtiar 1972a (ON); 3) Leong &

Holmes 1974a (AB - Cold Lake); 4)

Leong 1975 (AB - Cold Lake); 5)

Chinniah & Threlfall 1978 (LB); 6) Leong & Holmes 1981 (AB - Cold Lake); 7)

Dechtiar & Christie 1988 (ON); 8)

Dechtiar et al. 1988 (ON); 9) Dechtiar &

Lawrie 1988 (ON)

Phyllodistomum folium (Olfers, 1816) Braun, 1899

Synonym: Distomum folium Olfers, 1816

Site: urinary bladder
Host: Esox lucius
Distribution: QC

Record: Stafford 1904

Phyllodistomum lysteri Miller, 1940

Site: ureters

Hosts: Carpiodes cyprinus (9)

Catostomus catostomus (7, 10) Catostomus commersoni (1, 2, 3, 4,

5, 6, 7, 8, 9, 10)

Moxostoma macrolepidotum (7)

Distribution: ON, QC

Records: 1) Miller 1940b (QC); 2)

Dechtiar 1972a (ON); 3) Dechtiar 1972b

(ON); 4) Molnar et al. 1974 (ON); 5) Chan 1980 (ON); 6) Dechtiar & Christie 1988 (ON); 7) Dechtiar et al. 1988 (ON); 8) Dechtiar & Lawrie 1988 (ON); 9) Dechtiar & Nepszy 1988 (ON); 10) Dechtiar et al.1989 (ON)

Phyllodistomum superbum Stafford, 1904

Site: ureters

Hosts: Catostomus commersoni (3)

Esox lucius (2, 3)

Perca flavescens (1, 4, 5, 6)

Salvelinus fontinalis (3)

Stizostedion canadense (4)

Stizostedion vitreum (4)
Distribution: ON, QC

Records: 1) Stafford 1904 (QC); 2)

Lyster 1939 (QC); 3) Fantham & Porter 1948 (QC); 4) Dechtiar 1972a (ON); 5) Dechtiar et al. 1988 (ON); 6) Dechtiar &

Lawrie 1988 (ON)

Phyllodistomum umblae (Fabricius, 1780) Bakke, 1982

Synonyms: *Phyllodistomum limnosa*Sandeman and Pippy, 1967;
?*Phyllodistomum lachancei* Choquette,
1947

Sites: ureters, urinary bladder

Hosts: Coregonus clupeaformis (4)

Oncorhynchus mykiss (6, 7)

Salvelinus fontinalis (1, 2, 3, 4, 5,

7, 8, 9)

Salvelinus namaycush (5)

Distribution: BC, LB, NF, ON, QC

Records: 1) Choquette 1947 (QC); 2)

Choquette 1948a (QC); 3) Sandeman & Pippy 1967 (NF); 4) Hicks & Threlfall

1973 (LB); 5) Chinniah & Threlfall 1978 (LB); 6) Bakke & Bailey 1987 (BC); 7) Dechtiar et al. (ON); 8) Wright et al. 1989 (QC); 9) Albert & Curtis 1991 (QC)

Phyllodistomum sp.

Sites: ureters, urinary bladder

Hosts: Catostomus catostomus (1)

Coregonus artedii (1, 9)

Esox lucius (8)

Moxostoma macrolepidotum (2)

Oncorhynchus mykiss (3, 6, 7)

Perca flavescens (4)

Phoximus eos (11)

Phoxinus neogaeus (11)

Prosopium cylindraceum (9, 10)

Ptychocheilus oregonensis (7)

Richardsonius balteatus (7)

Salvelinus namaycush (3, 6)

Distribution: BC, ON, QC

Records: 1) Dechtiar 1972a (ON); 2) Dechtiar 1972b (ON); 3) Anonymous

1978 (BC); 4) Anthony 1978b (ON); 5) Frechette et al. 1978 (QC); 6) Arai &

Mudry 1983 (BC); 7) Anonymous 1984 (BC); 8) Dechtiar & Christie 1988 (ON);

9) Dechtiar et al. 1988 (ON); 10) Dechtiar

& Lawrie 1988 (ON); 11) Dechtiar et al.

1989 (ON)

Gorgoderidae gen. sp.

Site: kidney

Host: Salvelinus fontinalis

Distribution: NF Record: Frost 1940

SUPERFAMILY MICROPHALLOIDEA

FAMILY MICROPHALLIDAE

Microphallus opacus (Ward, 1894) Ward, 1901

Synonym: Distomum opacus Ward, 1894

Site: intestine

Host: Perca flavescens
Distribution: ON, QC

Records: Bangham & Hunter 1939 (ON); Fantham & Porter 1948 (QC)

*Microphallidae gen. sp.

Site: unspecified Hosts: Lota lota

Perca flavescens

Distribution: ON

Record: Bangham 1941

SUPERFAMILY OPECOELOIDEA

FAMILY LISSORCHIIDAE

Lissorchis attenuatus (Mueller and Van Cleave, 1932) Krygier and Macy, 1969

Synonym: *Trigonodistomum attenuatum* Mueller and Van Cleave, 1932)

Site: intestine

Hosts: Carpiodes cyprinus (5, 6, 16) Catostomus catostomus (3, 10, 12,

Catostomus commersoni (1, 2, 4, 7,

8, 9, 11, 13, 14, 15, 16, 17)

Catostomus macrocheilus (3, 10,

12)

Moxostoma anisurum (5)

Distribution: AB, BC, ON

Records: 1) Bangham 1941 (ON); 2)
Bangham & Venard 1946 (ON); 3)
Bangham & Adams 1954 (BC); 4)
Bangham 1955 (ON); 5) Dechtiar 1972a
(ON); 6) Dechtiar 1972b (ON); 7) Molnar
et al. 1974 (ON); 8) Leong 1975 (AB Cold Lake); 9) Chan 1980 (ON); 10)
Anonymous 1981 (BC); 11) Leong &
Holmes 1981 (AB - Cold Lake); 12)
Anonymous 1984 (BC); 13) Dechtiar &
Christie 1988 (ON); 14) Dechtiar et al.
1988 (ON); 15) Dechtiar & Lawrie 1988
(ON); 16) Dechtiar & Nepszy 1988 (ON);
17) Dubois et al. 1996 (QC)

Lissorchis crassicrurum Haderlie, 1953

Site: intestine

Hosts: Catostomus commersoni Hiodon alosoides Moxostoma anisurum

Distribution: MB

Record: Szalai et al. 1992

Lissorchis gullaris Self and Campbell, 1956

Site: intestine

Hosts: Carpiodes cyprinus (2)
Catostomus catostomus (1)

Distribution: LB, MB

Records: 1) Threlfall & Hanek 1970a (LB); 2) Szalai & Dick 1987a (MB)

Lissorchis kritskyi Barnhart and Powell, 1979

Site: [intestine]

Host: Perca flavescens

Distribution: MB

Record: Poole & Dick 1985

Lissorchis simeri (Mueller and Van Cleave, 1932) Krygier and Macy, 1969

Site: digestive tract

Hosts: Catostomus catostomus (2)

Catostomus commersoni (1)

Distribution: ON

Records: 1) Bangham 1941; 2) Bangham

1955

Lissorchis translucens (Simer, 1929) Krygier and Macy, 1969

Site: intestine

Host: Catostomus commersoni

Distribution: ON Record: Chan 1980

Lissorchis sp.

Includes: Triganodistomum sp. of

Bangham (1941, 1955)

Site: unspecified

Hosts: Catostomus catostomus (1)

Notropis hudsonius (2)

Distribution: ON

Records: 1) Bangham 1941; 2) Bangham

1955

FAMILY OPECOELIDAE

Allopodocotyle boleosomi (Pearse, 1924) Kuntz and Font, 1984

Synonyms: Allocreadium boleosomi Pearse, 1924; Podocotyle boleosomi (Pearse, 1924) Yamaguti, 1971

Site: digestive tract

Host: Percina caprodes

Distribution: ON

Record: Bangham & Hunter 1939

Plagioporus cooperi (Hunter and Bangham,

1932) Price, 1934

Synonym: Lebouria cooperi Hunter and

Bangham, 1932

Includes: Allocreadium commune of

Cooper (1915a) (partim)

Site: intestine

Hosts: Couesius plumbeus (4)

Notropis atherinoides (2, 4) Notropis hudsonius (1, 2, 3, 4)

Rhinichthys cataractae (1, 2)

Distribution: ON

Records: 1) Hunter & Bangham 1932; 2)

Bangham & Hunter 1939; 3) Bangham

1955; 4) Dechtiar et al. 1988

Plagioporus serotinus Stafford, 1904

Site: gall bladder

Hosts: Catostomus commersoni (2)

Moxostoma macrolepidotum (1, 2)

Distribution: QC

Records: 1) Stafford 1904; 2) Miller

1940b

Plagioporus serratus Miller, 1940

Site: gall bladder

Host: Hiodon tergisus

Distribution: OC

Record: Miller 1940b

Plagioporus shawi (McIntosh, 1939)

Margolis, 1972

Site: intestine

Host: Prosopium williamsoni

Distribution: BC

Record: Nener et al. 1995

Plagioporus sinitsini Mueller, 1934

Includes: Allocreadium commune of

Cooper (1915a) (partim)

Sites: gall bladder, intestine

Hosts: Catostomus catostomus (2)

Catostomus commersoni (3, 4, 5)

Hybognathus hankinsoni (4) Notropis atherinoides (1) Notropis hudsonius (7) Phoxinus eos (4)

Pimephales promelas (4, 5, 6)

Distribution: ON

Records: 1) Cooper 1915a; 2) Bangham

1955; 3) Dechtiar 1972a; 4) Kakonge 1972; 5) Molnar et al. 1974; 6) Chan

1980; 7) Dechtiar & Christie 1988

Plagioporus sp.

Site: intestine

Host: Etheostoma exile Distribution: ON

Record: Bangham & Hunter 1939

SUPERFAMILY PLAGIORCHOIDEA

FAMILY LECITHODENDRIIDAE

?Pleurogenes sp.

Site: intestine

Host: ?Salvelinus fontinalis

Distribution: QC

Record: Fantham & Porter 1948

FAMILY MACRODEROIDIDAE

Alloglossidium corti (Lamont, 1921) Van

Cleave and Mueller, 1934

Site: intestine
Host: Noturus flavus
Distribution: ON

Records: Bangham 1972; Dechtiar &

Christie 1988

Alloglossidium geminum (Mueller, 1930)

Van Cleave and Mueller, 1934

Synonyms: *Plagiorchis geminus*Mueller, 1930; *Glossidium geminum*

(Mueller, 1930) Yamaguti, 1954

Site: intestine

Hosts: Etheostoma exile (1)

Noturus flavus (2) Perca flavescens (1)

Distribution: ON

Records: 1) Molnar et al. 1974; 2)

Dechtiar & Christie 1988

*Digenea gen. sp.

Includes: Cercaria sp. of Cooper

(1915a); Distomum sp. auct.

Sites: eye, fins, mesenteries,

musculature, stomach, subcutaneous, viscera

Hosts: Catostomus commersoni (8)

Esox lucius (3, 8, 11)
Gasterosteus aculeatus (9)
Margariscus margarita (6)
Notropis hudsonius (8)
Oncorhynchus mykiss (10)
Perca flavescens (1, 7, 8)
Phoxinus eos (4)
Rhinichthys cataractae (6)
Salvelinus fontinalis (2, 5, 10)
Stizostelion vitreum (3)

Distribution: AB, BC, MB, ON, QC
Records: 1) Cooper 1915 (ON); 2)
Ricker 1932 (ON); 3) Parnell 1934 (QC);
4) Bangham 1941 (ON); 5) MacLulich
1943b (ON); 6) Stewart-Hay 1951b
(MB); 7) Stewart-Hay 1951f (MB); 8)
Stewart-Hay 1952b (NB); 9) Lester 1975
(BC); 10) Mudry & Anderson 1977
[AB - Edith Lake, (O. mykiss), Patricia
Lake (O. mykiss, S. fontinalis)]; 11)
Stock 1988 (AB - Jarvis Lake)

Digenea gen. sp.

Includes: Trematoda sp.; Distomum sp. auct.

Sites: digestive tract, urinary bladder, swim bladder

swim bladder

Hosts: Acipenser fulvescens (10)

Carpiodes cyprinus (5)

Catostomus catostomus (9)

Catastomus commersoni (7,9)

Coregonus artedii (11)

Coregonus clupeaformis (4, 6)

Cottus cognatus (8, 9)

Culaea inconstans (2)

Esox lucius (9, 12, 13)

Hiodon alosoides (11)

Lota lota (9, 12) Notropis hudsonius (9)

Perca flavescens (1, 9)

Salvelinus fontinalis (2, 3)
Distribution: AB, BC, MB, ON, QC
Records: 1) Cooper 1915a (ON); 2)
Ricker 1932 (ON); 3) Richardson 1935
(QC); 4) Bangham & Hunter 1939 (ON);
5) Stewart-Hay 1951b (MB); 6) Welch
1952 (ON); 7) Stewart-Hay 1952a (MB);

Percopsis omiscomaycus (9)

1952 (ON); 7) Stewart-Hay 1952a (MB); 8) Bangham & Adams 1954 (BC); 9) Lawler 1959c (MB); 10) Harkness & Dymond 1961 (ON); 11) Reed 1962 (SK); 12) McAllister & Mudry 1983 [AB - near Stony Plain, Unnamed Lake (E. lucius), Cold Lake (Lota lota), Bangs Lake (C. artedii)]; 13) Stock 1988 (AB - Jarvis Lake)

CLASS CESTODA

SUBCLASS CESTOIDEA

SUPERORDER EUCESTODA

ORDER CARYOPHYLLIDEA

FAMILY CAPINGENTIDAE

Spartoides wardi Hunter, 1929

Site: intestine

Host: Carpiodes cyprinus
Distribution: MB, ON

Records: Stewart-Hay 1951b; Dechtiar 1972b (ON); Dechtiar & Nepszy 1988 (ON)

FAMILY CARYOPHYLLAEIDAE

Biacetabulum biloculoides Mackiewicz and McCrae, 1965

Site: intestine

Host: Catostomus commersoni

Distribution: ON

Records: Molnar et al. 1974; Chan 1980

Biacetabulum infrequens Hunter, 1929

Site: intestine

Moxostoma anisurum Host: Distribution: MB, ON

Dechtiar 1972a (ON); Szalai et Records:

al. 1992 (MB)

Biacetabulum sp.

Site: intestine

Hosts: Carpiodes cyprimus (2)

Catostomus commersoni (2, 3, 4)

Moxostoma anisurum (4) Pimephales promelas (1)

Distribution: MB, ON

1) Dechtiar 1972a (ON); 2) Records:

Dechtiar & Nepszy 1988 (ON); 3)

Dechtiar et al. 1989 (ON); 4) Szalai et al.

1992 (MB)

Glaridacris catostomi Cooper, 1920

Caryophyllaeus terebrans of Includes: Bangham and Adams (1954) (partim);

Glaridacris laruei of Bangham and Venard (1946)

Sites: intestine, stomach Hosts: Catostomus catostomus (1, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 19, 20,

24, 25, 26, 29, 30)

Catostomus commersoni (2, 3, 10, 11, 14, 16, 19, 20, 21, 23, 25, 27, 28, 29, 31, 32)

Catostomus macrocheilus (10, 24,

26)

Esox lucius (18, 22)

Moxostoma macrolepidotum (28)

Distribution: AB, BC, MB, NB, NT,

ON, QC, SK, YT

Records: 1) Wardle 1932 (ON, SK); 2)

Bangham & Hunter 1939 (ON); 3)

Bangham 1941 (ON); 4) Miller 1944b (NT); 5) Miller 1945e (AB - Lake

Athabasca); 6) Bangham & Venard 1946

(ON); 7) Rawson & Elsey 1950 (AB -

Pyramid Lake); 8) Rawson 1951 (NT);

9) Stewart-Hay 1953a (MB); 10)

Bangham & Adams 1954 (BC); 11)

Bangham 1955 (ON); 12) Rawson 1959

(SK); 13) Mackiewicz 1965 (NT, SK);

14) Dechtiar 1972a (ON); 15) Hanek &

Molnar 1974 (QC); 16) Mackiewicz

1976 (AB - Barrier Reservoir, Nose

Creek); 17) Arthur et al. 1976 (YT); 18)

Watson 1977 (MB); 19) Anonymous

1978 (BC); 20) Gordon et al. 1978 (QC);

21) Grey & Mackiewicz 1980 (NB); 22)

Watson & Dick 1980 (MB); 23) Chan

1980 (ON); 24) Anonymous 1981 (BC);

25) Arai & Mudry 1983 (BC); 26) Anonymous 1984 (BC); 27) Courtney

1987 (ON); 28) Dechtiar & Christie 1988

(ON); 29) Dechtiar et al. 1988 (ON); 30)

Dechtiar & Lawrie 1988 (ON); 31)

Dechtiar & Nepszy 1988 (ON); 32) Li &

Arai 1991 (AB - Chain Lakes)

Glaridacris confusus Hunter, 1929

Site: intestine

Hosts: Carpiodes cyprinus (3)

Catostomus commersoni (1, 2)

Distribution: ON, QC

Records: 1) Bangham 1941 (ON); 2) Richardson 1942 (QC); 3) Dechtiar 1972a

(ON)

Glaridacris laruei (Lamont, 1921) Hunter, 1927

Synonym: Glaridacris intermedius

Lamont, 1921 Site: intestine

Host: Catostomus commersoni

Distribution: ON, QC

Records: Lyster 1940a (QC); Bangham & Venard 1946 (ON); Dechtiar 1972a (ON); Molnar et al. 1974 (ON); Gordon et al. 1978 (QC); Chan 1980 (ON); Dubois et al. 1996 (QC)

Glaridacris terebrans (Linton, 1893) Mackiewicz, 1974

Synonym: Caryophyllaeus terebrans

(Linton, 1893) Hunter, 1930 Site: intestine

Hosts: Catostomus catostomus (2)
Catostomus macrocheilus (2)
Salvelinus confluentus (1)
Salvelinus namaycush (1)

Distribution: AB, BC

Records: 1) Rawson 1939 (AB - Lake Minnewanka); 2) Bangham & Adams 1954 (BC)

Glaridacris vogei Mackiewicz, 1976

Site: intestine

Host: Catostomus macrocheilus

Distribution: BC

Records: Mackiewicz 1976; Anonymous

1978; Arai & Mudry 1983

Glaridacris sp.

Site: intestine

Hosts: Catostomus catostomus (2, 3, 4) Catostomus commersoni (1, 2, 4) Catostomus macrocheilus (3, 5)

Notropis hudsonius (6)

Distribution: AB, BC, MB, ON
Records: 1) Stewart-Hay 1952b (MB);
2) Leong 1975 (AB - Cold Lake); 3)

Anonymous 1978 (BC); 4) Leong & Holmes 1981 (AB - Cold Lake); 5) Arai

& Mudry 1983 (BC); 6) Dechtiar & Christie 1988 (ON)

Hunterella nodulosa Mackiewicz and McCrae, 1962

Site: intestine

Hosts: Catostomus catostomus (13, 14) Catostomus commersoni (2, 3, 4, 5,

6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17)

Catostomus macrocheilus (1, 8, 11)

Distribution: **AB**, BC, LB, MB, ON, QC Records: 1) Mackiewicz & McCrae 1962

(BC); 2) Threlfall & Hanek 1970a (LB); 3) Dechtiar 1972a (ON); 4) Mudry 1972

(AB - Bow River, Nose Creek); 5)

Mudry & Arai 1973a (AB - Bow

River, Nose Creek); 6) Mudry & Arai 1973b (AB - Bow River, Nose Creek);

7) Molnar et al. 1974 (ON); 8)

Anonymous 1978 (BC); 9) Chan 1980 (ON); 10) Leong & Holmes 1981 (AB -

, 10) Leong & Homes 1701 (AB

Cold Lake); 11) Arai & Mudry 1983 (BC); 12) Dechtiar & Christie 1988 (ON); 13) Li & Arai 1988 [AB - Bow River, McGregor Lake, Nose Creek (C. catostomus), Bow River, Chain Lake, Nose Creek (C. commersoni)]; 14) Dechtiar et al. 1989 (ON); 15) Li & Arai 1991 (AB - Chain Lake); 16) Szalai et al. 1992 (MB); 17) Couillard et al. 1995 (QC)

Hunterella sp.

Site: intestine

Host: Catostomus commersoni

Distribution: AB

Record: Leong 1975 (AB - Cold Lake)

Hypocaryophyllaeus paratarius Hunter, 1927

Site: intestine

Host: Carpiodes cyprinus

Distribution: ON

Record: Bangham & Hunter 1939

Isogla idacris bulbocirrus Mackiewicz, 1965

Site: [intestine]

Host: Catostomus commersoni

Distribution: ON

Record: Courtney 1987

Isoglaridacris calentinei Mackiewicz, 1974

Includes: Caryophyllaeus terebrans of Bangham and Adams (1954) (partim)

Site: intestine

Host: Catostomus catostomus

Distribution: BC

Record: Mackiewicz 1974

Monobothrium hunteri Mackiewicz, 1963

Includes: Glaridacris catostomi of Bangham and Adams (1954) (partim)

Site: intestine

Hosts: Carpiodes cyprimus (3, 4)

Catostomus commersoni (1, 2)

Distribution: BC, MB

Records: 1) Mackiewicz 1963 (BC); 2) Molnar et al. 1974 (ON); 3) Szalai & Dick 1987a (MB); 4) Szalai et al. 1992

(MB)

Monobothrium sp.

Site: intestine

Hosts: Catostomus catostomus (1, 2)

Catostomus commersoni (1, 2)

Distribution: BC

Records: 1) Anonymous 1978; 2) Arai &

Mudry 1983

Pliovitellaria wisconsinensis Fischthal, 1951

Site: intestine

Hosts: Phoxinus neogaeus

Pimephales promelas

Distribution: ON

Record: Dechtiar et al. 1989

Rowardleus pennensis Mackiewicz and Deutsch, 1976

Site: intestine

Host: Carpiodes cyprinus

Distribution: MB

Records: Szalai & Dick 1987a; Szalai et

al. 1992

FAMILY LYTOCESTIDAE

Khawia iowensis Calentine and Ulmer, 1961

Site: intestine

Host: Moxostoma anisurum

Distribution: MB

Record: Szalai et al. 1992

Caryophyllidea gen. sp.

Includes: Caryophyllaeidae gen. sp.

Site: intestine

Hosts: Catostomus catostomus (1, 2, 3, 4)

Catostomus commersoni (3) Catostomus macrocheilus (2, 4)

Distribution: AB, BC, ON

Records: 1) Bangham 1955 (ON); 2) Anonymous 1978 (BC); 3) Drouin 1982

(AB - McGregor Lake, Travers

Reservoir); 4) Arai & Mudry 1983 (BC)

ORDER CYCLOPHYLLIDEA

FAMILY DILEPIDIDAE

*Paradilepis simoni Rausch, 1949

Site: mesenteries

Hosts: Oncorhynchus mykiss (1, 2, 3)

Prosopium williamsoni (1, 2, 3) Ptychocheilus oregonensis (1, 2, 3)

Distribution: BC

Records: 1) Anonymous 1981; 2) Ching

1982; 3) Anonymous 1984

*Paradilepis sp.

Site: mesenteries

Host: Phoxinus neogaeus

Distribution: ON

Record: Dechtiar et al. 1989

FAMILY HYMENOLEPIDAE

*Hymenolepis sp.

Sites: coelom, liver

Hosts: Couesius plumbeus (1)

Etheostoma exile (2)

Distribution: BC, ON

Records: 1) Bangham & Adams 1954

(BC); 2) Bangham 1955 (ON)

ORDER PROTOCEPHALIDEA

FAMILY PROTEOCEPHALIDAE

Corallobothrium fimbriatum Essex, 1928

Site: intestine

Host: Noturus flavus

Distribution: ON

Records: Bangham & Hunter 1939; Decthiar 1972c; Dechtiar et al. 1988 Corallobothrium sp.

Site: intestine

Hosts: Etheostoma exile

Perca flavescens

Distribution: ON

Record: Molnar et al. 1974

*Proteocephalus ambloplitis (Leidy, 1887) Benedict, 1900

Synonym: Proteocephalus micropteri

(Leidy, 1887) La Rue, 1911 Sites: mesenteries, viscera Hosts: *Culaea inconstans* (9)

> Notropis atherinoides (1) Notropis hudsonius (1) Notropis flavus (1)

Perca flavescens (1, 2, 3, 5, 6, 7,

8, 9, 10, 11)

Salvelinus fontinalis (4, 5) Salvelinus namaycush (4, 5) Stizostedion canadense (9)

Stizostedion vitreum (1, 3, 9)

Distribution: ON

Records: 1) Bangham & Hunter 1939, 2)
Bangham 1941; 3) Detwiler 1941; 4)
MacLulich 1943b; 5) Bangham & Venard
1946; 6) Bangham 1955; 7) Tedla 1969;
8) Fischer & Freeman 1973; 9) Dechtiar
1972a; 10) Tedla & Fernando 1972; 11)

Dechtiar & Nepszy 1988

Proteocephalus ambloplitis (Leidy, 1887) La Rue, 1911

Synonym: Proteocephalus micropteri

(Leidy, 1887) La Rue, 1911

Site: viscera

Hosts: Culaea inconstans (3)

Margariscus margarita (3) Perca flavescens (1, 2)

Phoxinus eos (3)

Distribution: EXP, ON

Records: 1) Bangham 1941 (ON); 2) Tedla & Fernando 1972 (ON); 3) Fischer

1972 (EXP)

Proteocephalus coregoni Wardle, 1932

Site: intestine

Hosts: Coregonus artedii (2, 4, 5, 6) Coregonus clupeaformis (3, 4)

Coregonus ciupeajormis (3, 4 Coregonus sp. (1)

Salvelinus namaycush (4)

Distribution: HBD, MB, ON

Records: 1) Wardle 1932 (HBD); 2)

Stewart-Hay 1951f (MB); 3) Stewart-Hay 1952b (MB); 4) Stewart-Hay 1953a

(MB); 5) Stewart-Hay 1953b (MB); 6)

Anthony 1978a (ON)

Proteocephalus filicollis (Rudolphi, 1802) Weinland, 1858

Site: intestine

Hosts: Coregonus artedii (2, 3, 4, 6)

Coregonus clupeaformis (5) Gasterosteus aculeatus (1)

Pungitius pungitius (3, 6)

Distribution: AB, MB, NF

Records: 1) Hanek & Threlfall 1970a (NF); 2) Leong & Holmes 1974a (AB -

Cold Lake); 3) Leong 1975 (AB - Cold Lake); 4) Watson 1977 (MB); 5) Watson & Dick 1979 (MB); 6) Leong & Holmes

1981 (AB - Cold Lake)

Proteocephalus fluviatilis Bangham, 1925

Site: intestine

Host: Perca flavescens

Distribution: ON

Record: Fischer 1972

Proteocephalus luciopercae Wardle, 1932

Site: intestine

Hosts: Stizostedion canadense (1, 9, 16) Stizostedion vitreum (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Distribution: MB, ON, SK

Records: 1) Wardle 1932 (MB, SK); 2)
Stewart-Hay 1951b (MB); 3) StewartHay 1951f (MB); 4) Stewart-Hay 1951g
(MB); 5) Stewart-Hay 1952b (MB); 6)
Stewart-Hay 1953a (MB); 7) StewartHay 1953b (MB); 8) Lawler 1954a
(MB); 9) Little 1954 (MB); 10) Rawson
1957a (SK); 11) Lawler & Watson 1958
(MB); 12) Dickson 1964 (MB); 13)
Anthony 1976 (ON); 14) Anthony 1978b
(ON); 15) Poole & Dick 1985 (MB); 16)
Szalai et al.1992 (MB)

Proteocephalus longicollis (Zeder, 1800) Nufer, 1905

Synonyms: Proteocephalus pusillus
Ward, 1910; Proteocephalus exiguus La
Rue, 1911; Proteocephalus neglectus La
Rue, 1911; Proteocephalus laruei Faust,
1920; Proteocephalus arcticus Cooper,
1921; Proteocephalus wickliffi Hunter and
Bangham 1933; Proteocephalus
salmonidicola Alexander, 1951;
Proteocephalus tumidocollus Wagner,
1953

Sites: intestine, pyloric caeca Hosts: *Coregonus artedii* (4, 5, 6, 8,

10, 11, 12, 13, 15, 16, 17, 18, 23, 24, 28, 39, 40, 41, 42, 43) Coregonus clupeaformis (1, 2, 4, 5, 9, 16, 17, 20, 21, 22, 23, 26, 28, 29, 32, 35, 36, 38, 39, 40, 41) Coregonus zenithicus (2) Cottus cognatus (22) Esox lucius (22, 38) Oncorhynchus clarki (3, 14) Oncorhynchus mykiss (14, 25, 30, 33, 35) Prosopium cylindraceum (6, 16, 22, 37) Prosopium williamsoni (14) Salvelinus fontinalis (18, 19, 26, 27) Salvelinus malma (14, 25, 30, 33, 35) Salvelinus namaycush (7, 22, 31, 34) Thymallus arcticus (22) AB, BC, CA, LB, MB, NT, Distribution: ON, QC, SK, YT Records: 1) Hart 1931 (ON); 2) Wardle 1932 (MB, SK); 3) Wardle 1933a (BC); 4) Hunter and Bangham 1933 (ON); 5) Bangham & Hunter 1939 (ON); 6) Bangham 1941 (ON); 7) MacLulich 1943b (ON); 8) Miller 1944b (NT); 9) Bangham & Venard 1946 (ON); 10) Rawson 1951 (NT); 11) Stewart-Hay 1951f (MB); 12) Stewart-Hay 1953a (MB); 13) Stewart-Hay 1953b (MB); 14) Bangham & Adams 1954 (BC); 15) Little 1954 (MB); 16) Bangham 1955 (ON); 17) Dechtiar 1972a (ON); 18) Hicks & Threlfall 1973 (LB); 19) Hanek & Molnar 1974 (QC); 20) Leong & Holmes 1974a (AB - Cold Lake); 21) Leong 1975 (AB - Cold Lake); 22) Arthur et al. 1976 (YT); 23) Watson 1977 (MB); 24)

Anthony 1978a (ON); 25) Anonymous

1978 (BC); 26) Chinniah & Threlfall 1978 (LB); 27) Thompson & Threlfall 1978 (QC); 28) Watson & Dick1979 (MB); 29) Leong & Holmes 1981 (AB - Cold Lake); 30) Anonymous 1981(BC); 31) Stewart & Bernier 1982 (NT); 32) Drouin 1982 (AB - McGregor Lake); 33) Arai & Mudry 1983 (BC); 34) Stewart & Bernier 1983 (NT); 35) Anonymous 1984 (BC); 37) Curtis 1988 (CA); 38) Stock 1988 (AB - Jarvis Lake); 39) Dechtiar & Christie 1988 (ON); 40) Dechtiar et al. 1988 (ON); 41) Dechtiar & Lawrie 1988 (ON); 42) Dechtiar et al. 1989 (ON); 43) Szalai et al. 1992 (MB)

Proteocephalus parallacticus MacLulich, 1943

Site: intestine

Hosts: Salmo trutta (1, 2)

Salvelinus fontinalis (1, 2, 3, 4, 6) Salvelinus fontinalis X Salvelinus

namaycush (6)

Distribution: AB, ON, QC

Records: 1) MacLulich 1943a (ON); 2)
MacLulich 1943b (ON); 3) Bangham &
Venard 1946 (ON); 4) Choquette 1948a
(QC); 5) Freeman 1961 (ON); 6) Freeman
1964a (ON); 7) Mudry & Anderson
1977 (AB - Upper Waterton Lake); 8)
Dechtiar 1972a (ON); 9) Dechtiar &
Lawrie 1988 (ON)

Proteocephalus pearsei La Rue, 1919

Site: intestine

Hosts: Coregonus artedii (13) Cottus ricei (10)

Margariscus margarita (9) Notropis atherinoides (8) Perca flavescens (1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 14, 15, 18, 19, 20, 21, 22) Percina caprodes (1, 17) Percopsis omiscomaycus (1) Stizostedion vitreum (12, 14) Distribution: EXP, MB, ON Records: 1) Bangham & Hunter 1939 (ON); 2) Bangham 1941 (ON); 3) Bangham & Venard 1946 (ON); 4) Bangham 1955 (ON); 5) Tedla & Fernando 1969a (ON); 6) Tedla 1969 (ON); 7) Tedla & Fernando 1972 (ON); 8) Dechtiar 1972a (ON); 9) Fischer 1972

(EXP); 10) Cannon 1973 (ON); 11) Fischer 1974 (ON); 12) Anthony 1976 (ON); 13) Anthony 1978a (ON); 14)

Lawrie 1988 (ON); 19) Dechtiar &

Nepszy 1988 (ON); 20) Dechtiar &

(MB); 22) Szalai et al. 1992 (MB)

Christie 1988 (ON); 21) Szalai & Dick 1991a (MB); 22) Szalai & Dick 1991a

Anthony 1978b (ON); 15) Poole & Dick

1985 (MB); 16) Anthony 1987 (ON); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar &

Lota lota (4, 16)

Proteocephalus pinguis La Rue, 1911

Sites: intestine, pyloric caeca
Hosts: Esox lucius (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37)
Notropis atherinoides (4)
Notropis hudsonius (4, 37)
Perca flavescens (5, 24)
Stizostedion vitreum (22, 24, 28)

Distribution: **AB**, BC, LB, MB, NT, ON, QC

1) Wardle 1932 (MB); 2) Records: Wardle 1936 (MB); 3) Richardson 1937 (QC); 4) Bangham & Hunter 1939 (ON); 5) Cameron 1945 (QC); 6) Miller 1945e (AB - Lake Athabasca); 7) Rawson 1951 (NT); 8) Stewart-Hay 1951b (MB); 9) Stewart-Hay 1951f (MB); 10) Worley & Bangham 1952 (QC); 11) Stewart-Hay 1952b (MB); 12) Stewart-Hay 1953a (MB); 13) Lawler 1954a (MB); 14) Bangham & Adams 1954 (BC); 15) Little 1954 (MB); 16) Bangham 1955 (ON); 17) Lawler & Watson 1958 (MB); 18) Crossman 1962 (ON); 19) Threlfall & Hanek 1970b (LB); 20) Dechtiar 1972a (ON); 21) Leong 1975 (AB - Cold Lake); 22) Anthony 1976 (ON); 23) Watson 1977 (MB); 24) Anthony 1978b (ON); 25) Chinniah & Threlfall 1978 (LB); 26) Thompson & Threlfall 1978 (QC); 27) Watson & Dick 1980 (MB); 28) Leong & Holmes 1981 (AB - Cold Lake); 29) Anthony 1983 (ON); 30) Shostak & Dick 1986 (MB); 31) Shostak & Dick 1987a (MB); 32) Dechtiar & Christie 1988 (ON); 33) Dechtiar et al. 1988 (ON); 34) Dechtiar & Lawrie 1988 (ON); 35) Dechtiar & Nepszy 1988 (ON); 36) Shostak & Dick 1989a (MB); 37) Szalai et al. 1992 (MB)

Proteocephalus ptychocheilus Faust, 1920

Host: Ptychocheilus oregonensis Distribution: BC Records: Bangham & Adams 1954;

Site: intestine

Records: Bangham & Adams 1954; Anonymous 1978; Anonymous 1981; Arai & Mudry 1983; Anonymous 1984 Proteocephalus pugetensis Hoff and Hoff, 1929

Site: intestine

Hosts: Culaea inconstans (3)

Gasterosteus aculeatus (1, 2, 3)

Distribution: BC, ON

Records: 1) Bangham & Adams 1954 (BC); 2) Lester 1975 (BC); 3) Dechtiar & Christie 1988 (ON)

Proteocephalus singularis La Rue, 1911

Site: intestine

Host: Coregonus clupeaformis

Distribution: AB, MB

Records: Lawler1954a (MB); Little 1954 (AB - Bow Lake, Jackfish Lake, Lower Waterton Lake; MB) Lawler & Watson 1958 (MB)

*Proteocephalus stizostethi Hunter and Bangham, 1933

Site: digestive tract
Hosts: Culaea inconstans
Hiodon tergisus
Perca flavescens
Percina caprodes

Distribution: ON

Record: Bangham & Hunter 1939

Proteocephalus stizostethi Hunter and Bangham, 1933

Site: intestine

Hosts: Esox lucius (3, 8)
Stizostedion canadense (1, 2, 5)
Stizostedion vitreum (1, 2, 3, 4, 5, 6, 7, 9, 10)

Distribution: ON, QC
Records: 1) Hunter & Bangham 1933
(ON); 2) Bangham & Hunter 1939 (ON);
3) Worley & Bangham 1952 (QC); 4)
Bangham 1955 (ON); 5) Dechtiar 1972a
(ON); 6) Anthony 1976 (ON); 7) Anthony
1978b (ON); 8) Anthony 1983 (ON); 9)
Dechtiar et al. 1988 (ON); 10) Dechtiar &
Nepszy 1988 (ON)

**Proteocephalus sp.

Sites: intestine, pyloric caeca
Hosts: Carpiodes cyprinus (26)
Catostomus catostomus (57)
Catostomus commersoni (3)
Coregonus artedii (11, 21, 29, 31, 43)

Coregonus clupeaformis (1, 7, 12, 21, 28, 29, 31, 34, 36, 39, 43, 44, 46, 47, 51)

Couesius plumbeus (17, 56) Culaea inconstans (2) Esox lucius (5, 6, 14, 15, 16, 31,

38, 39, 40, 43, 44, 51)
Gasterosteus aculeatus (22, 30)
Hiodon tergisus (2)
Lota lota (8, 21, 24, 31, 41, 52)
Notropis atherinoides (2)
Notropis hudsonius (2, 18)
Noturus flavus (55)
Oncorhynchus kisutch (29, 31,

43)
Oncorhynchus mykiss (18, 25)
Perca flavescens (14, 35, 39, 44, 51, 58, 60)

Phoxinus neogaeus (26)
Pimephales promelas (27)
Prosopium cylindraceum (17, 28)
Prosopium williamsoni (25, 34,

47)

Pungitius pungitius (23, 26, 31, 32, 45, 59) Richardsonius balteatus (17) Salvelinus fontinalis (4, 10, 18, 21, 28, 29, 36, 40, 42, 53, 54, 57) Salvelinus fontinalis X Salvelinus namaycush (37, 56) Salvelinus namaycush (9, 19, 21, 28, 29, 36, 48, 49, 50) Stizostedion vitreum (7, 13, 15, 20, 33, 35) AB, BC, LB, MB, NB, NF, Distribution: NT, ON, QC, SK Records: 1) Hart 1930 (ON); 2) Bangham & Hunter 1939 (ON); 3) Bangham 1941 (ON); 4) Richardson 1942 (QC); 5) McLeod 1943 (MB); 6) McLeod 1944 (MB); 7) Miller 1945d (AB - Lake Athabasca, NT); 8) Bangham & Venard 1946 (ON); 9) Miller & Kennedy 1948 (NT); 10) Munroe 1949 (LB); 11) Rawson 1951 (NT); 12) Stewart-Hay 1951f (MB); 13) Worley & Bangham 1952 (QC); 14) Stewart-Hay 1952a (MB); 15) McTavish 1952 (MB); 16) Stewart-Hay 1953c (MB); 17) Bangham & Adams 1954 (BC); 18) Bangham 1955 (ON); 19) Rawson 1961 (SK); 20) Ryder 1963 (AB - Iosegun Lake); 21) Freeman 1964a (ON); 22) Threlfall & Hanek 1970a (LB, NF); 23) Threlfall & Hanek 1970b (LB); 24) Threlfall & Hanek 1971 (LB); 25) Bell & Hoskins 1971 (BC); 26) Dechtiar 1972a (ON); 27) Kakonge 1972 (ON); 28) Hicks & Threlfall 1973 (LB); 29) Leong & Holmes 1974a (AB - Cold Lake); 30) Lester 1975 (BC); 31) Leong 1975 (AB - Cold Lake); 32) Dickinson & Threlfall 1976 (LB); 33) Anthony 1976 (ON); 34) Anonymous 1978 (BC); 35) Anthony 1978b (ON); 36) Chinniah & Threlfall 1978 (LB); 37) Dechtiar & Berst

1978 (ON); 38) Gordon et al. 1978 (QC); 39) Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake); 40) Thompson & Threlfall 1978 (QC); 41) Anonymous 1981 (BC); 42) Black 1981a (QC); 43) Leong & Holmes 1981 (AB - Cold Lake); 44) Samuel 1981 [AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake (C. clupeaformis), Cache Lake, Jarvis Lake (E. lucius), Cache Lake (P. flavescens)]; 45) Curtis 1982 (QC); 46) Drouin 1982 (AB - Lake McGregor); 47) Arai & Mudry 1983 (BC); 48) McAllister & Mudry 1983 (AB - Cornwall Lake); 49) Stewart & Bernier 1983 (NT); 50) Stewart & Bernier 1984 (NT); 51) Samuel 1985 [AB - Blue Lake (C. clupeaformis, E. lucius), Cache Lake (C. clupeaformis, E. lucius, P. flavescens), Gregg Lake (C. clupeaformis), Jarvis Lake (C. clupeaformis, E. lucius); 52) Anthony 1987 (ON); 53) Frimeth 1987a (NB); 54) Frimeth 1987b (NB); 55) Dechtiar & Christie 1988 (ON); 56) Dechtiar et al. 1988 (ON); 57) Dechtiar & Lawrie 1988 (ON); 58) Zelmer 1994 (AB -Burntstick Lake, Carburn Pond, Elkwater Lake, Fincastle Lake, Garner Lake, Joker Lake, Pigeon Lake, Pine Lake, Rattlesnake Lake, Sherburne Lake, Sylvan Lake); 59) Marcogliese 1995 (NS); 60) Zelmer & Arai 1998 (AB - Garner Lake)

Proteocephalidae gen. sp.

Site: intestine

Hosts: Acipenser fulvescens (5)

Lota lota (4)

Salvelinus fontinalis (1, 2, 3) Salvelinus namaycush (1)

Distribution: AB, MB, QC

Records: 1) Lyster 1940a (QC); 2) Choquette 1948a (QC); 3) Hoffman & Dunbar 1961 (QC); 4) Fillion 1961 (AB -Lac Ste. Anne); 5) Choudhury & Dick 1993 (MB)

ORDER PSEUDOPHYLLIDEA

SUBORDER BOTHRIOCEPHALATA

SUPERFAMILY AMPHICOTYLOIDEA

FAMILY AMPHICOTYLIDAE

Eubothrium crassum (Bloch, 1779) Nybelin, 1922

Synonyms: Abothrium crassum (Bloch, 1779); Eubothrium oncorhynchi Wardle, 1932

Sites: intestine, pyloric caeca

Hosts: Coregonus artedii (3, 5, 7) Coregonus clupeaformis (1, 3)

> Lota lota (1, 3, 4, 6, 7, 9) Oncorhynchus mykiss (7) Salvelinus fontinalis (10, 11)

Salvelinus namaycush (1, 2, 8)

Distribution: LB, NB, NT, ON Records:1) Cooper 1919 (ON); 2)

Cooper 1921 (ON); 3) Bangham & Hunter 1939 (ON); 4) Bangham 1941 (ON); 5) Miller 1944b (NT); 6) Bangham

& Venard 1946 (ON); 7) Bangham 1955 (ON); 8) Hicks & Threlfall 1973 (LB); 9)

Anthony 1987 (ON); 10) Frimeth 1987a (NB); 11) Frimeth 1987b (NB)

Eubothrium rugosum (Batsch, 1786) Nybelin, 1922

Sites: intestine, pyloric caeca

Host: Lota lota

Distribution: AB, BC, MB, NT, ON Records: Wardle 1932 (MB); Kuitunen-Ekbaum 1933 (MB); Miller 1944b (NT); Miller 1945e (AB - Lake Athabasca; NT); Rawson 1951 (NT); Stewart-Hay 1952b (MB); Stewart-Hay 1953b (MB); Bangham & Adams 1954 (BC); Fillion 1961 (AB - Cold Lake, Lac La Nonne, Lac Ste. Anne); Dechtiar 1972a (ON); Leong 1975 (AB - Cold Lake); Mudry & Anderson 1977 (AB - Upper Waterton Lake); Anonymous 1978 (BC); Leong & Holmes 1981 (AB -Cold Lake); Anderson & Kennedy 1983 (BC); Anonymous 1984 (BC); Dechtiar et al. 1988 (ON); Dechtiar & Lawrie 1988 (ON)

Eubothrium salvelini (Schrank, 1790) Nybelin, 1922

Sites: intestine, pyloric caeca Coregonus artedii (29, 35) Hosts: Coregonus clupeaformis (11, 29, 31) Oncorhynchus clarki (20) Oncorhynchus kisutch (29, 37, 39, 42, 45, 47) Oncorhynchus mykiss (29, 37, 39, 42, 45, 47)

Prosopium cylindraceum (27, 31,

Prosopium williamsoni (33, 41) Ptychocheilus oregonensis (3, 20) Salmo trutta (24) Salvelinus confluentus (1, 6) Salvelinus fontinalis (1, 3, 4, 5, 7, 9, 11, 13, 14, 17, 24, 25, 27, 28, 34, 36, 38, 45, 46, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59) Salvelinus fontinalis X Salvelinus namaycush (35, 55) Salvelinus malma (3, 20, 33, 37, 41, 42, 47) Salvelinus namaycush (1, 2, 3, 8, 9,10, 11, 12, 15, 16, 18,19, 20, 21, 22, 23, 26, 27, 29, 30, 31, 32, 33, 34, 36, 39, 40, 41, 43, 44, 46, 47, 48, 52, 53) Thymallus arcticus (31) Distribution: AB, BC, LB, MB, NB, NF, NT, ON, QC, SK, YT 1) Wardle 1932 (AB - Spray Lakes, MB, NT); 2) Wardle 1933b (ON); 3) Kuitunen-Ekbaum 1933 (AB - Spray Lakes); 4) Richardson 1936 (QC); 5) Richardson 1937 (QC); 6) Rawson 1939 (AB - Bow Lake, Moraine Lake, Lake Minnewanka); 7) Lyster 1940a (QC); 8) Richardson 1942 (QC); 9) MacLulich 1943b (ON); 10) Miller 1945e (AB -Lake Athabasca, NT); 11) Bangham & Venard 1946 (ON); 12) Miller 1946b (NT); 13) Choquette 1948a (QC); 14) Fantham & Porter 1948 (QC); 15) Miller & Kennedy 1948 (NT); 16) Rawson 1951 (NT); 17) Worley & Bangham 1952 (QC); 18) Stewart-Hay 1953b (MB); 19) Stewart-Hay 1953b (MB); 20) Bangham & Adams 1954 (BC); 21) Bangham 1955 (ON); 22) Rawson 1959 (SK); 23) Rawson 1961 (SK); 24) Sandeman & Pippy 1967 (NF); 25) Threlfall & Hanek 1970c (NF); 26) Dechtiar 1972a (ON); 27) Hicks & Threlfall 1973 (LB); 28)

53, 54)

Hanek & Molnar 1974 (QC); 29) Leong & Holmes 1974a (AB - Cold Lake); 30) Leong 1975 (AB - Cold Lake); 31) Arthur et al. 1976 (YT); 32) Mudry & Anderson 1977 [AB - Amethyst Lake (O. mykiss), Upper Waterton Lake (S. namaycush); 33) Anonymous 1978 (BC); 34) Chinniah & Threlfall 1978 (LB); 35) Dechtiar & Berst 1978 (ON); 36) Gordon et al. 1978 (QC); 37) Anonymous 1981 (BC); 38) Black 1981 (QC); 39) Leong & Holmes 1981 (AB - Cold Lake); 40) Stewart & Bernier 1982 (NT); 41) Arai & Mudry 1983 (BC); 42) Anderson & Kennedy 1983 (BC); 43) Stewart & Bernier1983 (NT); 44) McAllister & Mudry 1983 (AB - Cornwall Lake); 45) Cone & Ryan 1984 (NF); 46) Stewart & Bernier 1984 (NT); 47) Anonymous 1984 (BC); 48) Frimeth 1987a (NB); 49) Frimeth 1987b (NB); 50) Albert & Curtis 1988 (QC); 51) Curtis 1988 (QC); 52) Dechtiar & Christie 1988 (ON); 53) Dechtiar & Lawrie 1988 (ON); 54) Baggs & McT. Cowan 1989 (NF); 55) Dechtiar et al. 1989 (ON); 56) Wright et al. 1989 (OC); 57) Albert & Curtis 1991 (OC); 58) Marcogliese & Cone 1991b (NF); 59) Poulin et al. 1992 (QC)

Eubothrium tulipai Ching and Andersen, 1983

Site: intestine

Host: Ptychocheilus oregonensis

Distribution: BC

Records: Ching & Andersen 1983;

Anonymous 1984

Eubothrium sp.

Sites: intestine, pyloric caeca

Hosts: Catostomus catostomus (7, 8) Coregonus artedii (5)

Coregonus ariean (5)

Coregonus clupeaformis (5, 10)

Couesius plumbeus (8) Esox lucius (6, 7, 12, 15)

Lota lota (3)

Oncorhynchus kisutch (11)

Oncorhynchus mykiss (15)

Prosopium cylindraceum (10)

Prosopium williamsoni (8)

Ptychocheilus oregonensis (13)

Pungitius pungitius (11, 14)

Richardsonius balteatus (8)

Salvelinus fontinalis (1, 4, 9, 10)

Salvelinus namaycush (2, 10) Stizostedion vitreum (6)

Distribution: **AB**, BC, LB, MB, NF, NT, OC

Records: 1) Frost 1940 (NF); 2) Lyster 1940a (QC); 3) McLeod 1943 (MB); 4) Munroe 1949 (LB); 5) Rawson 1951 (NT); 6) Stewart-Hay 1951g (MB); 7) McTavish 1953 (MB); 8) Bangham & Adams 1954 (BC); 9) Threlfall & Hanek 1970c (NF); 10) Hicks & Threlfall 1973 (LB); 11) Leong 1975 (AB - Cold Lake); 12) Pybus & Samuel 1978 (AB - Cold Lake); 13) Anonymous 1978 (BC); 14) Leong & Holmes 1981 (AB - Cold Lake); 15) McAllister & Mudry 1983 (AB - Hines Creek Dugout)

FAMILY BOTHRIOCEPHALIDAE

Bothriocephalus claviceps (Goeze, 1782) Rudolphi, 1810

Site: intestine

Hosts: Percopsis omiscomaycus

Stizostedion canadense

Distribution: ON

Record: Bangham & Hunter 1939

Bothriocephalus cuspidatus Cooper, 1917

Synonyms: Bothriocephalus cuspidatus luciopercae Wardle, 1932;
Bothriocephalus cuspidatus hiodontos
Wardle, 1932; Bothriocephalus
cuspidatus cuspidatus Cooper, 1917
Sites: intestine

Hosts: Esox lucius (2, 4, 6, 18, 31, 36,

43)

Etheostoma exile (3) Hiodon alosoides (2, 20, 23, 28,

43)
Hiodon tergisus (2, 3)
Notropis atherinoides (3, 27)
Perca flavescens (2, 3, 24, 25, 26,

27, 31, 32, 37, 38, 42, 43, 44)

Percina caprodes (3)

Percopsis omiscomaycus (3)

Salvelinus malma (18)

Salvelinus namaycush (9, 11, 12,

18)
Stizostedion canadense (2, 3, 19, 27, 43)

Stizostedion vitreum (1, 2, 3, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 27, 29, 30, 33, 34, 35, 37, 38, 39, 40, 41, 43)

Distribution: **AB**, HBD, MB, NT, ON, QC, SK

Records: 1) Cooper 1919 (ON); 2)
Wardle 1932 (HBD); 3) Bangham &
Hunter 1939 (ON); 4) McLeod 1943
(MB); 5) Miller 1944b (NT); 6) McLeod
1944 (MB); 7) Miller 1945e (AB - Lake
Athabasca); 8) Rawson 1951 (SK); 9)
Stewart-Hay 1951a (MB); 10) Stewart-

Hay 1951b (MB); 11) Stewart-Hay 1951c (MB); 12) Stewart-Hay 1951f (MB); 13) Stewart-Hay 1951g (MB); 14) Worley & Bangham 1952 (QC); 15) Stewart-Hay 1952b (MB); 16) Stewart-Hay 1953a (MB); 17) Stewart-Hay 1953b (MB); 18) Little 1954 (AB - Bow Lake, Bow River, Waterton Lakes); 19) Bangham 1955 (ON); 20) Reed 1962 (SK); 21) Ryder 1963 (AB - Lac Ste. Anne, Iosegun Lake); 22) Dickson 1964 (MB); 23) Kennedy & Sprules 1967 (AB -Lake Claire, Red Deer River, South Saskatchewan River; MB, ON, SK); 24) Tedla & Fernando 1969a (ON); 25) Tedla 1969 (ON); 26) Tedla & Fernando 1972 (ON); 27) Dechtiar 1972a (ON); 28) Donald & Kooyman 1974 (AB -Chenal des Quatre Fourches, Lake Claire, Mamawi Lake, Prairie River); 29) Leong 1975 (AB - Cold Lake); 30) Anthony 1976 (ON); 31) Mudry & Anderson 1977 (AB - Lower Waterton Lake); 32) Anthony 1978b (ON); 33) Pybus & Samuel 1978 (AB - Gregg Lake); 34) Leong & Holmes 1981 (AB -Cold Lake); 35) Samuel 1981 (AB -Gregg Lake); 36) Anthony 1983 (ON); 37) Poole & Dick 1985 (MB); 38) Dechtiar & Christie 1988 (ON); 39) Dechtiar et al. 1988 (ON); 40) Dechtiar & Lawrie 1988 (ON); 41) Dechtiar & Nepszy 1988 (ON); 42) Szalai & Dick 1991a (MB); 43) Szalai et al. 1992 (MB); 44) Zelmer 1994 (AB - Garner Lake, Pigeon Lake, Sherburne Lake, Sylvan Lake)

Bothriocephalus formosus Mueller and Van Cleave, 1932 Site: intestine

Hosts: Etheostoma exile (1, 2)

Percina caprodes (2)

Percopsis omiscomaycus (1, 2, 3)

Distribution:

1) Bangham 1955; 2) Dechtiar Records:

1972a; 3) Dechtiar et al. 1988

Bothriocephalus opsariichthydis Yamaguti, 1934

Synonyms: **Bothriocephalus** acheilognathi Yamaguti, 1934; Bothriocephalus fluviatilis Yamaguti, 1952; Bothriocephalus gowkongensis Yeh, 1955

Site: intestine

Ptychocheilus oregonensis Host:

Distribution: BC

Records: Anonymous 1978; Arai &

Mudry 1983

Bothriocephalus sp.

Sites: intestine, pyloric caeca

Coregonus clupeaformis (3, 4, 5) Hosts:

Esox lucius (6)

Gasterosteus aculeatus (11, 13)

Hiodon tergisus (3) Lota lota (7, 8, 15)

Myoxocephalus thompsoni (14)

Perca flavescens (1, 4, 6, 8, 10,

12, 16, 17)

Salvelinus namaycush (3, 7)

Stizostedion vitreum (2, 9, 13)

AB, BC, MB, NF, NT, ON Distribution:

1) Bangham 1941 (ON); 2) Records:

McLeod 1943 (MB); 3) Miller 1945e (AB - Lake Athabasca; NT); 4)

Bangham & Venard 1946 (ON); 5)

Rawson 1951 (NT); 6) Stewart-Hay 1952a (MB); 7) Bangham & Adams 1954 (BC); 8) Bangham 1955 (ON); 9) Fillion 1961 (AB - Lac Ste. Anne); 10) Dickson 1964 (MB); 11) Hanek & Threlfall 1970a (NF); 12) Cannon 1973 (ON); 13) Pybus & Samuel 1978 (AB - Gregg Lake), 14) Black & Lankester 1981a (ON); 15) Anthony 1987 (ON); 16) Zelmer 1994 (AB - Garner Lake, Pigeon Lake, Sherburne Reservoir, Sylvan Lake); 17) Zelmer & Arai 1998 (AB - Garner Lake)

Bothriocephalidae gen. sp.

Sites: intestine, mesenteries

Coregonus artedii (1) Hosts:

Gasterosteus aculeatus (2)

Pungitius pungitius (2)

Distribution: ON, QC

1) Pritchard 1931 (ON); 2) Records:

Hanek & Molnar 1974 (QC)

FAMILY TRIAENOPHORIDAE

*Triaenophorus crassus Forel, 1868

Triaenophorus robustus Synonyms: Olsson, 1893; Triaenophorus sp. type

robustus of Cooper (1919);

Triaenophorus tricuspidatus morpha

megadontus Wardle, 1932;

Triaenophorus tricuspidatus of Newton (1932) (partim)

musculature Site:

Hosts: Coregonus artedii (2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 22,

23, 24, 25, 26, 27, 30, 31, 32, 35, 40,

45, 47, 50, 51, 54, 55, 57, 60, 61, 62, 63, 65, 67, 69, 70, 71, 72, 74, 75, 76, 77, 78, 80, 82, 83, 84, 85, 86, 90, 91, 94, 95, 96, 97, 99,100, 103, 104, 105, 106, 108, 112, 113, 114, 115, 118, 119, 120, 128, 130, 131, 133, 134, 135, 136, 138, 139, 140, 141, 144, 151, 157, 158, 159) Coregonus clupeaformis (2, 4, 5, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 52, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 77, 79, 80, 82, 83, 85, 86, 87, 88, 89, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 118, 119, 120, 121, 122, 125, 126, 127, 128, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 154, 155, 156, 157, 158, 159) Coregonus zenithicus (2, 4, 5, 32, 35, 40, 53, 54, 55, 60, 65, 74, 78, 80, 82, 83, 85) Coregonus sp. (1, 3, 27, 28, 56, 63, 81, 98, 99, 101, 102, 119, 122, 131) Lampetra japonica (129) Oncorhynchus mykiss (152, 153) Perca flavescens (3) Prosopium cylindraceum (45, 62, 63, 66, 94, 137, 157) Prosopium williamsoni (11, 18, 25, 133) *Prosopium* sp. (10, 76) Salvelinus fontinalis (32, 63, 118, 135) Salvelinus namaycush (12, 17, 18, 24, 26, 31, 32, 41, 45, 62, 63, 66, 67, 75, 92, 93, 94, 99, 112, 113, 117, 118, 123, 124, 135, 136, 137, 142, 158) Thymallus arcticus (24, 27, 30, 62,

63, 66, 67, 75, 94, 137) Distribution: AB, BC, CA, EXP, LB, MB, NT, ON, QC, SK, YT Records: 1) Cooper 1919 (ON); 2) Bajkov 1932 (MB); 3) Wardle 1932 (MB); 4) Newton 1932 (MB); 5) Nicholson 1932a (MB); 6) Fallis 1934 (ON); 7) Ekbaum 1935 (CA); 8) Kuitunen-Ekbaum 1936 (ON); 9) Detwiler 1941 (MB); 10) Miller 1943 (AB - Lesser Slave Lake); 11) Miller 1944a (AB - Cold Lake, Lesser Slave Lake); 12) Miller 1944b (NT); 13) Miller 1944c (AB - Lake Athabasca); 14) Miller 1944d (AB - Lesser Slave Lake); 15) Clemens et al. 1945 (BC); 16) Miller 1945b (AB - Lesser Slave Lake); 17) Miller 1945c (AB - Lake Athabasca); 18) Miller 1945d (AB - Lesser Slave Lake); 19) Doan 1945a (MB); 20) Doan 1945b (MB); 21) Doan 1945c (AB unspecified, MB, SK); 22) Doan 1945d (MB); 23) Doan 1945e (MB); 24) Miller 1946a (NT); 25) Miller 1946c (AB -Lesser Slave Lake); 26) Miller 1946d (NT); 27) Miller & Watson 1946 (AB -Baptiste Lake); 28) Doan 1946a (MB); 29) Doan 1946b (MB); 30) Miller 1947 (NT); 31) Rawson 1947a (NT); 32) Rawson 1947b (AB - Lake Athabasca); 33) Doan 1947a (MB); 34) Doan 1947b (MB); 35) Miller 1948 (AB - Lesser Slave Lake); 36) Kennedy 1948a (MB); 37) Kennedy 1948b (MB); 38) McMurtie & Carter 1948 (CA); 39) Doan 1948a (MB); 40) Doan 1948b (MB); 41) Miller & Kennedy 1948 (NT); 42) Oakland 1948 (MB); 43) Doan 1949a (MB); 44) Doan 1949b (MB); 45) Doan 1949c (AB - Lesser Slave Lake); 46) Oakland 1949 (MB); 47) Reed & Dymond 1949 (MB); 48) Wheaton &

Rawson 1949a (SK); 49) Wheaton & Rawson 1949b (SK); 50) Arnason 1950 (MB); 51) Miller 1950 (AB - Square Lake); 52) Oakland 1950 (MB); 53) Keleher 1950a (MB); 54) Keleher 1950b (MB); 55) Keleher 1950c (MB); 56) Doan 1950 (MB); 57) Lawler 1950a (MB); 58) Lawler 1950b (MB); 59) Rawson & Wheaton 1950 (SK); 60) Welch 1950a (ON); 61) Welch 1950b (ON); 62) Rawson 1951 (NT); 63) Stewart-Hay 1951a (MB); 64) Wheaton & Hazen 1951 (SK); 65) Keleher & Matheson 1951 (MB); 66) Kennedy 1951 (MB); 67) Lawler 1951a (MB); 68) Lawler 1951b (MB); 69) Lawler 1951c (MB); 70) Welch 1951 (ON); 71) Doan 1951 (MB); 72) Lawler 1952b (MB); 73) Lawler 1952c (MB); 74) Reed & Dymond 1951 (AB - Lesser Slave Lake, MB, ON); 75) Miller 1952 (AB -Baptiste Lake, Calling Lake, Cold Lake, Lac la Biche, Lesser Slave Lake, Pinehurst Lake, Seibert Lake, Square Lake, Utikuma Lake, Winnifred Lake, MB); 76) Miller 1952b (AB - Square Lake); 77) Reed & Dymond 1952 (MB); 78) Keleher 1952a (MB); 79) Keleher 1952b (MB); 80) Miller & Johnson 1952 (AB - Square Lake); 81) Wheaton 1952 (NT); 82) Welch 1952a (ON); 83) Welch 1952b (ON); 84) Stewart-Hay 1952a (MB); 85) McTavish 1952 (MB); 86) McBurney & Lawler 1953 (MB); 87) Lawler 1953b (MB); 88) Lawler 1953c (MB); 89) Lawler 1953d (MB); 90) Miller 1953 (AB - Square Lake); 91) Libin 1953a (ON); 92) Libin 1953b (EXP); 93) Stewart-Hay 1953a (MB); 94) Doan 1953 (AB - Lesser Slave Lake, MB, SK); 95) Reed 1953 (AB - Lesser Slave

Lake); 96) Reed & Dymond 1953 (MB); 97) Miller 1954 (AB - Lesser Slave Lake); 98) Lawler & Scott 1954 (MB, NT, ON); 99) Lawler 1954a (MB); 100) Kask 1954 (MB); 101) Lawler 1955 (MB); 102) Bangham 1955 (ON); 103) Fuller 1955 (NT); 104) Kask 1955 (MB); 105) Kask 1956 (MB); 106) Rawson 1957b (SK); 107) Kask 1958 (MB); 108) Lawler & Watson 1958 (MB); 109) Lawler 1958b (MB); 110) Lawler 1959b (MB); 111) Kask 1959 (MB); 112) Rawson 1959 (SK); 113) Crampton 1960 (MB); 114) Kask 1960 (MB); 115) Lawler 1960b (MB); 116) Rawson 1961 (SK); 117) Lawler 1961a (MB); 118) Kask 1961 (MB); 119) Kask 1962 (MB); 120) Watson 1963b (MB); 121) Sunde 1963b (MB); 122) Watson 1963b (MB); 123) Dickson 1964 (MB); 124) Budde 1965 (MB); 125) Lawler 1965a (MB); 126) Lawler 1965b (MB); 127) Sunde 1965 (MB); 128) Buchwald & Nursall 1969 (NT); 129) Freese 1969 (CA); 130) Lawler 1970 (MB); 131) Freese 1970 (MB); 132) Paetz & Nelson 1970 (AB -Lesser Slave Lake); 133) Freese 1971 (CA); 134) Dechtiar 1972a (ON); 135) Leong 1975 (AB - Cold Lake); 136) Anonymous 1976 (AB - Baptiste Lake, Brintnell Lake, Georges Lake, Kehiwin Lake, Muskwa Lake, Sandy Lake, Square Lake (C. artedii); Amisk Lake, Bocquene Lake, Cold Lake, Equisetum Lake, Ethel Lake, Fawcett Lake, Heart Lake, Hilda Lake, Iosegun Lake, Lac la Biche, Lac la Nonne, Lesser Slave Lake, Little Sandy Lake, Long Lake II, Long Lake III, Marie Lake, May Lake, Moose Lake, Nipisi Lake (Little Whitefish Lake), Orloff Lake, Pearson Lake, Pinehurst Lake, Pound Lake,

Rock Island Lake, Skeleton Lake, South Wabasca Lake, Twin Lakes, Winnifred Lake, Wolf Lake (C. artedii, C. clupeaformis); Cornwall Lake, Leland Lakes (C. artedii, C. clupeaformis, S. namaycush); Arch Lake, Lake Athabasca, Bitscho Lake, Bourque Lake, Burnt Lake, Burstall Lake, Calling Lake, Carson Lake (McLeod Lake), Charles Lake, Lake Chipewyan, Christina Lake, Colin Lake, Florence Lake, Frenchman Lake, Frog Lake, Gift Lake, Gipsy Lake, Glover Lake, Gods Lake, Goodfish Lake, Graham Lake, Gregg Lake, Gregoire Lake, Grist Lake, Haig Lake, Ipiatik Lake, Jackfish Lake, Jarvis Lake, Jumbo Lake, Kirby Lake, Leggo Lake, Lodge Lake, Long Lake I, Loutit Lake, Margaret Lake, McLelland, Mink Lake, Namur Lake, North Wabasca Lake, Peerless Lake, Pegasus Lake, Piche Lake, Potts Lake, Primrose Lake, Richardson Lake, Roy-Emma Lake, Ryan Lake, Sander Lake, Sawn Lake, Seibert Lake, Touchwood Lake, Twin Lake, Utikuma Lake, Utikumasis Lake, Vandersteene Lake, Whitefish Lake, Wylies Lake (C. clupeaformis); Tulip Lake (C. clupeaformis, S. namaycush); 137) Arthur et al. 1976 (YT); 138) Watson 1977 (MB); 139) Dick & Watson 1977 (MB); 140) Anthony 1978a (ON); 141) Chinniah & Threlfall 1978 (LB); 142) Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake); 143) Watson & Dick 1979 (MB); 144) Leong & Holmes 1981 (AB - Cold Lake); 145) Samuel 1981 (AB - Lake Athabasca, Blue Lake, Cache Lake, Calling Lake, Cold Lake, Gregg Lake,

Haig Lake, Jarvis Lake, Lac la Biche, North Wabasca Lake); 146) Dick & Rosen 1982 (MB); 147) Rosen & Dick 1982a (MB); 148) Rosen & Dick 1982b (MB); 149) Bodaly et al. 1983 (MB); 150) Rosen & Dick 1983 (MB); 151) Rosen & Dick 1984a (MB); 152) Rosen & Dick 1984b (EXP, MB); 153) Rosen & Dick 1984c (MB); 154) Samuel 1985 (AB - Lake Athabasca, Blue Lake, Cache Lake, Calling Lake, Cold Lake, Gregg Lake, Haig Lake, Jarvis Lake, Lac la Eiche, North Wabasca Lake); 155) Dechtiar & Christie 1988 (ON); 156) Dechtiar et al. 1988 (ON); 157) Dechtiar & Lawrie 1988 (ON); 158) Nelson & Paetz 1992 (AB unspecified); 159) Boily & Curtis 1992 (QC)

Triaenophorus crassus Forel, 1868

Synonyms: Triaenophorus robustus
Olsson, 1893; Triaenophorus sp. type
robustus of Cooper (1919);
Triaenophorus tricuspidatus morpha
megadontus Wardle, 1932

Sites: intestine, pyloric caeca

Host: Esox lucius

Distribution: AB, BC, CA, CCA, HBD, LB, MB, NT, ON, QC, SK, YT
Records: Cooper 1919 (ON); Newton 1932 (MB); Wardle 1932 (MB); Fallis 1934 (ON); Ekbaum 1935 (CA); Kuitinen-Ekbaum 1936 (MB, ON); Ekbaum 1937 (MB, ON); Detwiler 1941 (MB); Miller 1943 (AB - Lesser Slave Lake); Miller 1943a (AB -Cold Lake, Lesser Slave Lake); Miller 1944d (AB - Lesser Slave Lake); Clemens et al.

1945 (BC); Doan 1945a (MB); Doan 1945b (MB); Doan 1945e (MB); Miller 1945c (AB - Lesser Slave Lake); Miller 1945d (AB - Athabasca Lake); Doan 1946a (MB); Doan 1946b (MB); Miller 1946c (AB - Lesser Slave Lake); Miller & Watkins 1946 (AB - Baptiste Lake); Doan 1947a (MB); Doan 1947b (MB); Miller 1947 (NT); Rawson 1947a (NT); Doan 1948a (MB); Doan 1948b (MB); Miller 1948 (AB - Lesser Slave Lake); Doan 1949a (MB); Doan 1949b (MB); Doan 1949c (AB - Lesser Slave Lake, MB, SK); Reed & Dymond 1949 (MB); Wheaton & Rawson 1949a (SK); Doan 1950 (MB); Lawler 1950a (MB); Miller 1950 (AB - Square Lake); Oakland 1950 (MB); Rawson & Wheaton 1950 (SK); Welch 1950b (ON); Bangham 1951 (ON); Kennedy 1951 (MB, NT); Lawler 1951a (MB); Lawler 1951c (MB); Libin 1951a (AB- unspecified); Libin 1951b (AB - Baptiste Lake); Libin 1951c (AB - Baptiste Lake); Rawson 1951 (NT); Reed & Dymond 1951 (MB); Wheaton & Hazen 1951 (SK); Doan 1951 (MB); Lawler 1952b (MB); Lawler 1952c (MB); Libin 1952 (ON); McTavish 1952 (MB); Miller 1952b (AB - Baptiste Lake, Lesser Slave Lake, Square Lake); Reed & Dymond 1952 (MB, ON); Stewart-Hay 1952b (MB); Welch 1952a (ON); Welch 1952b (ON); Miller & Huston 1952 (AB - Baptiste Lake, Square Lake); Lawler 1953a (MB); Lawler 1953c (MB); Lawler & McBurney 1953 (MB); Doan 1953 (CCA); Lawler 1953 (MB); McBurney & Lawler 1953 (MB); Miller 1953 (AB - Square Lake); Reed & Dymond 1953 (AB - Square Lake); Stewart-Hay 1953a (MB); Kask 1954 (MB); Lawler 1954a (MB); Lawler

1954c (MB); Lawler 1954e (MB); Lawler & Scott 1954 (ON); Bangham 1955 (ON); Kask 1955 (MB); Kennedy 1955 (MB); Lawler 1955 (MB); Kask 1956 (MB); Lawler 1956a (MB); Lawler 1956c (MB); Watson & Lawler 1956 (MB); Kask 1957 (MB); Lawler 1957 (MB); Rawson 1957b (SK); Kask 1958 (MB); Kennedy 1958 (MB); Lawler 1958a (MB); Lawler & Watson 1958 (MB); Kask 1959 (MB); Lawler 1956d (MB); Kask 1960 (MB); Lawler 1960a (MB); Watson & Price 1960 (MB, NT, ON); Kask 1961 (MB); Lawler 1961a (MB); Lawler 1961b (MB); Lawler 1961c (MB); Watson & Lawler 1961 (MB); Kask 1962 (MB); Watson & Lawler 1963 (MB); Watson & Lawler 1965a (MB); Lawler 1965a (MB); Lawler 1965b (MB); Lawler 1965d (MB); Watson & Lawler 1965a (MB); Watson & Lawler 1965b (MB); Lawler 1966b (MB); Wilson & Ronald 1967 (ON); Lawler 1970 (MB); Paetz & Nelson 1970 (AB - unspecified); Dechtiar 1972a (ON); Leong 1975 (AB - Cold Lake); Anthony 1976 (ON); Arthur et al. 1976 (YT); Dick & Watson 1977 (MB); Watson 1977 (MB); Anthony 1978b (ON); Chinniah & Threlfall 1978 (LB); Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Jarvis Lake); Thompson & Threlfall 1978 (QC); Watson & Dick 1980 (MB); Leong & Holmes 1981 (AB-Cold Lake); Samuel 1981 (AB - Blue Lake, Cache Lake, Jarvis Lake); Dick & Rosen 1982 (MB); Anthony 1983 (ON); Poole 1983 (MB); Rosen & Dick 1984b (MB); Shostak et al. 1984 (MB); Samuel 1985 (AB - Blue Lake, Cache Lake, Jarvis Lake); Shostak & Dick 1986 (MB); Shostak & Dick 1987a (MB); Shostak & Dick 1987b (MB); Shostak &

Dick 1987c (MB); Dechtiar et al. 1988 (ON); Dechtiar & Lawrie 1988 (ON); Shostak & Dick 1989a (MB); Shostak & Dick 1989b (MB)

*Triaenophorus nodulosus (Pallas, 1760) Rudolphi, 1819

Includes: Triaenophorus sp. type nodulosus of Cooper (1919) (partim)

Sites: mesenteries, viscera

Hosts: Acipenser fulvescens (51)
Carpiodes cyprinus (53, 54)
Catostomus catostomus (46, 51)
Catostomus commersoni (1, 3, 40,

42, 50, 51, 53, 54)

Coregonus artedii (41, 42, 57)

Coregonus clupeaformis (20, 22,

41, 42, 54, 55)

Cottus cognatus (13, 17, 19, 20,

21, 23, 24, 25, 26, 27, 43, 44) *Lota lota* (4, 5, 6, 7, 8, 10, 11, 13,

14, 15, 16, 18, 21, 23, 24, 25, 26, 27, 28, 21, 22, 28, 43, 44, 46, 56, 57)

31, 32, 38, 43, 44, 46, 56, 57)

Moxostoma anisurum (38, 39, 40)

Moxostoma macrolepidotum (51)

Notropis hudsonius (49, 57)

Oncorhynchus kisutch (41, 42, 43,

48)

Perca flavescens (1, 2, 10, 11, 12,

13, 14, 15, 16, 17, 18, 21, 23, 24, 25, 26,

27, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38,

40, 41, 45, 46, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59)

Percopsis omiscomaycus (40) Prosopium cylindraceum (51)

Pungitius pungitius (48)

Rhinichthys cataractae (52) Salvelinus fontinalis X Salvelinus

namaycush (45)

Salvelinus namaycush (22, 41, 42,

43, 48)

Stizostedion canadense (38, 40) Thymallus arcticus (9)

Distribution: AB, MB, NT, ON, WCA, YT

Records: 1) Cooper 1919 (ON); 2) Ekbaum 1935 (WCA); 3) Bangham & Hunter 1939 (ON); 4) Miller 1943 (AB -Lesser Slave Lake); 5) Miller 1944a (AB - Lesser Slave Lake); 6) Miller 1945a (AB - Lesser Slave Lake); 7) Miller 1946c (AB - Lesser Slave Lake); 8) Doan 1945c (MB); 9) Miller 1946a (NT); 10) Lawler 1950a (MB); 11) Lawler 1950c (MB); 12) Stewart-Hay 1951c (MB); 13) Lawler 1951a (MB); 14) Reed & Dymond 1951 (MB); 15) Welch 1952a (ON); 16) Welch 1952b (ON); 17) Lawler 1952a (MB); 18) Lawler 1952b (MB); 19) Reed & Dymond 1952 (MB); 20) Stewart-Hay 1952a (MB); 21) Lawler 1953a (MB); 22) Stewart-Hay 1953a (MB); 23) Lawler 1953b (MB); 24) Lawler 1954a (MB);25) Lawler 1955 (MB);26) Lawler & Watson 1958 (MB); 27) Lawler 1959a (MB); 28) Fillion 1961 (AB - Lac Ste Anne); 29) Lawler 1965c (MB); 30) Lawler 1966b (MB); 31) Lawler 1968 (MB); 32) Lawler 1969 (MB); 33) Tedla & Fernando 1969a (ON); 34) Tedla & Fernando 1969c (ON); 35) Tedla 1969 (ON); 36) Paetz & Nelson 1970 (AB - unspecified); 37) Tedla & Fernando 1972 (ON); 38) Dechtiar 1972a (ON); 39) Dechtiar 1972b (ON); 40) Collins & Dechtiar 1974 (ON); 41) Leong & Holmes 1974a (AB - Cold Lake); 42) Leong 1975 (AB - Cold Lake); 43) Arthur et al. 1976 (YT); 44) Watson 1977 (MB); 45) Dechtiar & Berst 1978 (ON); 46) Pybus & Samuel 1978 (AB - Angling Lake); 47) Anthony

1978b (ON); 48) Leong & Holmes 1981 (AB - Cold Lake); 49) Poole & Dick 1985 (MB); 50) Dechtiar & Christie 1988 (ON); 51) Dechtiar et al. 1988 (ON); 52) Dechtiar & Lawrie 1988 (ON); 53) Dechtiar & Nepszy 1988 (ON); 54) Stock 1988 (AB - Jarvis Lake); 55) Szalai & Dick 1991a (MB); 56) Nelson & Paetz 1992 (AB - unspecified); 57) Szalai et al. 1992 (MB); 58) Zelmer 1994 (AB - Garner Lake, Pigeon Lake, Sylvan Lake); 59) Zelmer & Arai 1998 (AB - Garner Lake)

Triaenophorus nodulosus (Pallas, 1760) Rudolphi, 1819

Synonym: Triaenophorus tricuspidatus morpha microdentatus Wardle, 1932 Includes: Triaenophorus tricuspidatus of Newton (1932) (partim); Triaenophorus sp. type nodulosus of Cooper (1919) (partim)

Site: intestine

Hosts: Esox lucius (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 66, 67, 68, 69, 70, 71, 72, 73)

Stizostedion vitreum (1, 12, 56, 59, 63, 64, 65)

Distribution: **AB**, CA, MB, NT, ON, SK, YT

Records: 1) Nicholson 1928 (MB); 2) Newton 1932 (MB); 3) Wardle 1932 (MB); 4) Ekbaum 1935 (CA); 5) Miller 1943 (AB - Lesser Slave Lake); 6) Miller 1944a (AB - Lesser Slave Lake); 7) Miller 1944b (NT); 8) Miller 1944d

(AB - Lesser Slave Lake); 9) Miller 1945a (AB - Lesser Slave Lake); 10) Miller 1945c (AB - Lesser Slave Lake); 11) Miller 1945e (NT); 12) Lawler 1950a (MB); 13) Lawler 1950b (MB); 14) Rawson 1951 (NT); 15) Libin 1951b (AB - Baptiste Lake); 16) Libin 1951c (AB - Baptiste Lake); 17) Wheaton & Hazen 1951 (SK); 18) Stewart-Hay 1952b (MB); 19) Miller 1952a (AB unspecified); 20) Welch 1952a (ON); 21) Welch 1952b (ON); 22) Lawler 1952a (MB); 23) Lawler 1952b (MB); 24) Stewart-Hay 1953a (MB); 25) Reed 1953 (MB); 26) Lawler & McBurney 1953 (MB); 27) Lawler 1953a (MB); 28) Lawler 1953b (MB); 29) Lawler 1954a (MB); 30) Lawler 1955 (MB); 31) Lawler 1956 (MB); 32) Watson & Lawler 1956 (MB); 33) Lawler & Watson 1958 (MB); 34) Lawler 1958a (MB); 35) Lawler 1959b (MB); 36) Watson & Price 1960 (MB); 37) Lawler 1960a (MB); 38) Lawler 1961b (MB); 39) Watson & Lawler 1961 (MB), 40) Watson & Lawler 1963 (MB); 41) Lawler 1963a (MB); 42) Watson 1963a (MB); 43) Lawler 1964a (MB); 44) Watson & Lawler 1965a (MB); 45) Watson & Lawler 1965b (MB); 46) Lawler 1965b (MB); 47) Lawler 1965c (MB); 48) Lawler 1966b (MB); 49) Lawler 1968 (MB); 50) Lawler 1969 (MB); 51) Paetz & Nelson 1970 (AB unspecified); 52) Dechtiar 1972a (ON); 53) Collins & Dechtiar 1974 (ON); 54) Leong 1975 (AB - Cold Lake); 55) Arthur et al. 1976 (YT); 56) Anthony 1976 (ON); 57) Watson 1977 (MB); 58) Pybus & Samuel 1978 (AB - Angling Lake); 59) Anthony 1978b (ON); 60) Watson & Dick 1980 (MB); 61) Leong & Holmes 1981 (AB - Cold Lake); 62)

Anthony 1983 (ON); 63) Poole & Dick 1985 (MB); 64) Samuel 1985 (AB - Jarvis Lake); 65) Shostak & Dick 1986 (MB); 66) Dechtiar & Christie 1988 (ON); 67) Dechtiar & Nepszy 1988 (ON); 68) Dechtiar et al. 1988 (ON); 69) Dechtiar & Lawrie 1988 (ON); 70) Stock 1988 (AB - Jarvis Lake); 71) Shostak & Dick 1989a (MB); 72) Nelson & Paetz 1992 (AB - unspecified); 73) Szalai et al. 1992 (MB)

*Triaenophorus stizostedionis Miller, 1945

Includes: *Triaenophorus* sp. of Miller (1943)

Sites: coelom, gonads, mesenteries, musculature, viscera

Hosts: Cottus cognatus (10, 11, 13, 14, 16)

Percopsis omiscomaycus (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20)

Distribution: AB, MB, ON

1) Miller 1943a (AB - Lesser Records: Slave Lake); 2) Miller 1945b (AB -Lesser Slave Lake); 3) Lawler 1950a (MB); 4) Lawler 1950c (MB); 5) Lawler 1951a (MB); 6) Reed & Dymond 1951 (MB); 7) Stewart-Hay 1951b (MB); 8) Welch 1952a (ON); 9) Welch 1952b (ON); 10) Lawler 1953b (MB); 11) Lawler 1954a (MB); 12) Lawler 1954b (MB); 13) Lawler & Scott 1954 (ON); 14) Lawler & Watson 1958 (MB); 15) Paetz & Nelson 1970 (AB unspecified); 16) Dechtiar 1972a (ON); 17) Dechtiar 1972b (ON); 18) Pybus & Samuel 1978 (AB - Gregg Lake); 19) Dechtiar & Christie 1988 (ON); 20) Nelson & Paetz 1992 (AB -

unspecified)

Triaenophorus stizostedionis Miller, 1945

Synonym: *Triaenophorus* sp. type nodulosus of Cooper (1919) (partim)
Includes: *Triaenophorus* sp. of Miller (1943)

Site: intestine

Host: Stizostedion vitreum

AB, MB, NT, ON, SK Distribution: Cooper 1919 (MB); Woodhead Records: 1930 (MB); Miller 1943 (AB - Lesser Slave Lake); Miller 1945a (AB - Lesser Slave Lake); Miller 1945d (AB - Lake Athabasca); Lawler 1950a (MB); Lawler 1950c (MB); Lawler 1951a (MB); Rawson 1951 (NT); Stewart-Hay 1951b (MB); Lawler 1951b (MB); Welch 1952a (ON); Welch 1952b (ON); Reed & Dymond 1953 (ON); Stewart-Hay 1953b (MB); Lawler 1954a (MB); Lawler 1954b (MB); Bangham 1955 (ON); Watson & Lawler 1956 (MB); Rawson 1957a (SK); Lawler & Watson 1958 (MB); Ryder 1963 (AB - Iosegun Lake); Dickson 1964 (MB); Watson & Lawler 1965a (MB); Watson & Lawler 1965b (MB); Paetz & Nelson 1970 (AB unspecified); Dechtiar 1972a (ON); Anthony 1976 (ON); Anthony 1978a (ON); Pybus & Samuel 1978 (AB -Gregg Lake); Dechtiar & Christie 1988 (ON); Dechtiar & Nepszy 1988 (ON); Nelson & Paetz 1992 (AB - unspecified)

Includes: *Triaenophorus cuspidatus* of Wardle (1932) (partim)

^{*}Triaenophorus sp. .

Sites: musculature, viscera

Hosts: Catostomus catostomus (17, 24)

Catostomus commersoni (1)

Coregonus artedii (2, 8, 9, 13, 14,

16, 17, 22, 23, 26)

Coregonus clupeaformis (2, 8, 9,

10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 23,

25, 26, 27, 28, 29, 30, 31, 32, 33)

Coregonus zenithicus (2, 13)

Esox lucius (3)

Perca flavescens (1, 3, 4, 19)

Percopsis omiscomaycus (4, 6, 7)

Salvelinus namaycush (5, 12, 13)

Salvelinus canadense (4)

Stizostedion vitreum (4, 19)

Distribution: AB, CA, MB, NT, ON, SK

Records: 1) Cooper 1919 (ON); 2)

Nicholson 1932a (MB); 3) Wardle 1932 (MB); 4) Bangham & Hunter 1939 (ON);

(ND), 4) Dangham & Hanter 1959 (Of

5) McLeod 1943 (MB); 6) Miller 1943

(AB - Lesser Slave Lake); 7) Miller

1944a (AB - Lesser Slave Lake); 8)

Cameron 1945 (CA); 9) Rawson 1945

(MB); 10) Rawson 1946a (NT); 11)

Rawson 1946b (AB - Lake Athabasca); 12) Miller 1947 (NT); 13) Rawson 1947b

(AB - Lake Athabasca); 14) Wheaton &

Rawson 1949a (SK); 15) Wheaton &

Rawson 1949b (SK); 16) Miller &

Macdonald 1950 (AB - Skeleton Lake); 17) Bangham 1951 (ON); 18) Stewart-

Hay 1951f (MB); 19) Stewart-Hay 1951g

(MB); 20) Welch 1951 (ON); 21)

Stewart-Hay 1952b (MB); 22) Stewart-

Hay 1953a (MB); 23) Stewart-Hay 1953b (MB); 24) Bangham 1955 (ON); 25)

Rawson 1959 (SK); 26) Rawson 1960

(SK); 27) Sunde 1963a (MB); 28)

Sunde 1964 (MB); 29) Sunde 1965

(MB), 30) Koshinsky 1965 (SK), 31)

Freese 1973 (MB); 32) Eaton 1975

(SK); 33) McCart et al. (AB - Lake

Athabasca, Athabasca River)

Triaenophorus sp.

Includes: Triaenophorus sp. of Wardle

(1933) (partim)

Site: intestine

Hosts: Esox lucius (1, 2, 3, 9, 10, 12, 14,

15, 16, 18, 19)

Stizostedion canadense (5)

Stizostedion vitreum (4, 5, 6, 7, 8,

11, 13, 14, 17)

Distribution: AB, MB, NT, ON, SK

Records: 1) Cooper 1919 (ON); 2)

Nicholson 1932a (MB); 3) Wardle 1933b

(MB); 4) Wardle 1933c (MB); 5)

Bangham & Hunter 1939 (ON); 6) Miller

1943 (AB - Lesser Slave Lake); 7)

Miller 1944a (AB - Lesser Slave Lake);

8) Miller 1944b (NT); 9) Miller &

Watkins 1945 (AB - Baptiste Lake); 10)

Wheaton & Rawson 1949b (SK); 11)

Bangham 1951 (ON); 12) Libin 1951c

(AB - Baptiste Lake); 13) Stewart-Hay

1951f (MB); 14) Stewart-Hay 1951g

(MB); 15) Miller & Huston 1952 (AB -

Baptiste Lake); 16) Stewart-Hay 1952a

(MB); 17) Fillion 1961 (AB - Lac Ste.

Anne); 18) McAllister & Mudry 1983

(AB - Ross Lake); 19) Nelson & Paetz 1992 (AB - unspecified)

SUBORDER DIPHYLLOBOTHRIATA

FAMILY DIPHYLLOBOTHRIIDAE

*Diphyllobothrium dendriticum (Nitzsch, 1824) Lühe, 1909

Synonyms: *Diphyllobothrium cordiceps* (Leidy, 1824) Lühe, 1909

Sites: coelom, mesenteries

Hosts: Coregonus artedii (1, 4, 10, 13,

14)

Coregonus clupeaformis (5, 7,

10,14, 15, 16, 19)

Coregonus zenithicus (3)
Gasterosteus aculeatus (18)
Lota lota (12)
Oncorhynchus clarki (16)
Oncorhynchus mykiss (2, 7, 11,

16)

Prosopium villiamsoni (7, 16) Pungitius pungitius (8, 18) Salvelinus fontinalis (11, 17) Salvelinus malma (2, 7, 11) Salvelinus namaycush (3, 6, 9,

11, 13, 14)

Distribution: **AB**, BC, CA, MB, NS, NT, ON, QC

Records: 1) Thomas 1946 (ON); 2) Anthony 1967 (BC); 3) Freeman & Thompson 1969 (ON); 4) Anthony 1978a (ON); 5) Drouin 1982 (AB - McGregor Lake, Travers Reservoir); 6) Stewart & Bernier 1983 (NT); 7) Anonymous 1984 (BC); 8) Curtis 1984 (NT); 9) Stewart & Bernier 1984 (NT); 10) Dick & Poole 1985 (MB); 11) Anderson et al. 1987 (BC, QC); 12) Anthony 1987 (ON); 13) Curtis 1988 (QC); 14) de Vos & Dick 1989 (MB); 15) de Vos et al. 1990 (AB -McGregor Lake); 16) Dais 1990 [AB -McGregor Lake (C. clupeaformis), Rawson Lake (O. clarki), Elbow Lake (S. fontinalis), BC]; 17) Albert & Curtis 1991 (QC); 18) Marcogliese 1992 (NS); 19) Hobbs (undated) - (AB - Lesser Slave Lake)

*Diphyllobothrium ditremum (Creplin, 1825) Lühe, 1910

Synonym: *Diphyllobothrium osmeri* (v. Linstow, 1878) Lühe, 1910

Sites: coelom, mesenteries

Hosts: *Coregonus artedii* (2, 10, 11, 12, 14)

Gasterosteus aculeatus (8, 9, 13,

Oncorhynchi

Oncorhynchus mykiss (1, 9) Pungitius pungitius (3, 6, 15, 17) Salvelinus fontinalis (9, 13, 16) Salvelinus malma (9) Salvelinus namaycush (4, 5, 7, 9,

13)

Distribution: BC, CA, NS, NT, ON, QC Records: 1) Anthony 1967 (BC); 2) Freeman & Thompson 1969 (ON); 3) Curtis 1982 (NT); 4) Stewart & Bernier 1982 (NT); 5) Stewart & Bernier 1983 (NT); 6) Curtis 1984 (NT); 7) Stewart & Bernier 1984 (NT); 8) Bérubé & Curtis 1986 (QC); 9) Andersen et al. 1987 (BC); 10) Dechtiar & Christie 1988 (ON); 11) Dechtiar et al. 1988 (ON); 12) Dechtiar & Lawrie 1988 (ON); 13) Curtis 1988 (CA); 14) Dechtiar et al. 1989 (ON); 15) Marcogliese 1992 (NS); 16) Dubois et al. 1996 (QC); 17) Marcogliese 1995 (NS)

Site: mesenteries

Hosts: Coregonus artedii Coregonus zenithicus

Distribution: ON

Record: Vergeer 1942

^{*}Diphyllobothrium laruei Vergeer, 1942

^{*}Diphyllobothrium latum (Linnaeus, 1758) Cobbold, 1858

Synonym: Dibothriocephalus latus (Linnaeus, 1758) Includes: Diphyllobothrium sp. of Rawson (1947) Sites: coelom, intestine, musculature Hosts: Coregonus clupeaformis (43) Esox lucius (1, 2, 3, 4, 7, 8, 9, 10, 11, 13, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 37, 38, 39, 41, 42, 43) Lota lota (11, 13, 14, 34) Oncorhynchus mykiss (37) *Perca flavescens* (9, 11, 13, 14, 15, 18, 24, 30, 34, 38, 40) Salvelinus malma (37) Salvelinus namaycush (26) Stizostedion canadense (11, 13, 14, 15, 18) Stizostedion vitreum (1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 43) Distribution: AB, MB, NT, ON, QC, SK Records: 1) Nicholson 1928 (MB); 2) Nicholson 1929b (AB - unspecified), MB, ON); 3) Vergeer 1928a (AB unspecified), MB, ON); 4) Vergeer 1928b (AB - Lac la Biche, Lesser Slave Lake, MB, NT, ON); 5) Vergeer 1928c (MB); 6) Magath 1928 (MB); 7) Vergeer 1929a (ON); 8) Vergeer 1929b (AB -Lac la Biche, Lesser Slave Lake, MB, ON); 9) Magath & Essex 1931 (MB); 10) Nicholson 1932 (MB); 11) Wardle 1932 (MB); 12) Cushing & Bacal 1932 (MB); 13) Wardle 1933b (MB); 14) Bajkov 1933 (MB); 15) Wardle 1935 (MB); 16) Miller 1944b (NT); 17) Miller 1945a (AB - Lake Athabasca); 18) Miller 1945e (NT); 19 Rawson 1946a (MB); 20) Rawson 1947a (AB - Lake Athabasca); 21) Rawson 1947b (NT); 22) Rawson

1951 (NT); 23) Stewart-Hay 1951f (MB); 24) Stewart-Hay 1952a (MB); 25) Stewart-Hay 1952b (MB); 26) Stewart-Hay 1953a (MB); 27) Stewart-Hay 1953b (MB); 28) Stewart-Hay 1953c (MB); 29) Lawler 1954a (MB); 30) Harvey 1955 (MB); 31) Rawson 1957a (SK); 32) Lawler & Watson 1958 (MB); 33) Rawson 1960 (SK); 34) Roussow 1960 (QC); 35) Fillion 1961 (AB - Lac Ste. Anne); 36) Ryder 1963 (AB - Iosegun Lake); 37) Anthony 1967 (AB - Iosegun Lake); 38) Paetz & Nelson 1970 (AB -Iosegun Lake); 39) Dick & Poole 1985 (MB); 40) Poole & Dick 1985 (MB); 41) de Vos & Dick 1989 (MB); 42) Dais 1990 (MB); 43) Nelson & Paetz 1992 (AB - unspecified)

*Diphyllobothrium sp.

51, 53, 57)

Sites: coelom, heart, musculature, viscera Hosts: Catostomus catostomus (16) *Coregonus artedii* (9, 18, 24, 33, 38, 40, 44, 47, 49, 50, 53) Coregonus clupeaformis (21, 23, 30, 33, 34, 38, 40, 43, 44, 45, 46, 47, 48, 49, 52, 55, 57, 58, 61, 64, 65, 66, 67, 68) Coregonus zenithicus (35) Esox lucius (10, 11, 12, 13, 19,21, 22, 25, 44, 50) Gasterosteus aculeatus (32, 39, 55) Lota lota (1, 2, 4, 42, 51, 58) Oncorhynchus clarki (6, 14, 23, 43) Oncorhynchus kisutch (23, 38, 40,

Oncorhynchus mykiss (20, 23, 24,

28, 30, 41, 43, 45, 51, 56, 58, 61, 69)

Perca flavescens (16, 25) Prosopium cylindraceum (3, 42) Prosopium williamsoni (6, 23, 43, 45, 51, 56, 58) Pungitius pungitius (31) Salmo trutta (28) Salvelinus fontinalis (2, 3, 16, 17, 27, 28, 36, 37, 43, 46, 59, 62, 63, 68) Salvelinus fontinalis X Salvelinus namaycush (43, 47) Salvelinus malma (45, 51, 57) Salvelinus namaycush (5, 7, 9, 15, 18, 23, 26, 29, 38, 42, 43, 45, 46, 54, 55, 56, 57, 58, 60, 66) Stizostedion vitreum (8, 10, 11, 12, 13, 19, 21, 22, 24) Thymallus articus (42, 45, 53, 56) Distribution: AB, BC, LB, MB, NB, NF, NS, NT, ON, QC, SK, YT 1) Cooper 1919 (NT); 2) Records: Wardle 1932 (MB); 3) Wardle 1933c (NS); 4) Wardle 1935 (MB); 5) Kuitunen-Ekbaum 1937a (ON); 6) Rawson 1939 (AB - Boom Lake, Bow Lake, Marvel Lake); 7) MacLulich 1943b (ON); 8) McLeod & Moir 1944 (MB); 9) Miller 1945e (NT); 10) Rawson 1946a (MB); 11) Rawson 1946b (AB - Lake Athabasca); 12) Rawson 1947a (NT); 13) Rawson 1947b (AB - Lake Athabasca); 14) Rawson 1947c (AB -Marvel Lake); 15) Miller & Kennedy 1948 (NT); 16) Fantham & Porter 1948 (QC); 17) Choquette 1948a (QC); 18) Rawson 1951 (NT); 19) Stewart-Hay 1951b (MB); 20) Rawson 1953 (AB -Amethyst Lake); 21) Stewart-Hay 1953a (MB); 22) McTavish 1952 (MB); 23) Bangham & Adams 1954 (BC); 24) Bangham 1955 (ON); 25) Hartman 1957 (AB - Iosegun Lake); 26) Freeman 1964b (ON); 27) Lageaux

1966 (QC); 28) Sandeman & Pippy 1967 (NF); 29) Freeman & Thompson 1969 (ON); 30) Paetz & Nelson 1970 (AB -Lower Kananaskis Lake, Upper Kananaskis Lake); 31) Hanek & Threlfall 1970b (NF); 32) Lester 1971b (BC); 33) Dechtiar 1972a (ON); 34) Dechtiar 1972b (ON); 35) Scott & Crossman 1973 (ON); 36) Hicks & Threlfall 1973 (LB); 37) Hanek & Molnar 1974 (QC); 38) Leong & Holmes 1974a (AB - Cold Lake); 39) Lester 1975 (BC); 40) Leong 1975 (AB - Cold Lake); 41) Hoskins et al. 1976 (BC); 42) Arthur et al. 1976 (YT); 43) Mudry & Anderson 1977 [AB - Moraine Lake (O. mykiss, S. fontinalis X S. namaycush), Lower Waterton Lake, Pyramid Lake (P. williamsoni), Upper Waterton Lake (S. namaycush), Edith Lake, Horseshoe Lake, Moat Lake (O. mykiss), Amethyst Lake, Herbert Lake (O. mykiss, S. fontinalis), Patricia Lake, Mud Lake, Shadow Lake, Vista Lake (S. fontinalis), Boom Lake (O. clarki), BC, (O. clarki, S. fontinalis); 44) Watson 1977 (MB); 45) Anonymous 1978 (BC); 46) Chinniah & Threlfall 1978 (LB); 47) Dechtiar & Berst 1978 (ON); 48) Pybus & Samuel 1978 (AB - Jarvis Lake); 49) Watson & Dick 1979 (MB); 50) Watson & Dick 1980 (MB); 51) Anonymous 1981 (BC); 52) Samuel 1981 (AB - Jarvis Lake); 53) Leong & Holmes 1981 (AB - Cold Lake); 54) Stewart & Bernier 1982 (NT); 55) Curtis 1982 (NT); 56) Arai & Mudry 1983 (BC); 57) Stewart & Bernier 1983 (NT); 58) Anonymous 1984 (BC); 59) Cone & Ryan 1984 (NF); 60) Stewart & Bernier 1984 (NT); 61) Samuel 1985 (AB - Jarvis Lake); 62) Frimeth 1987a (NB); 63)

Frimeth 1987b (NB); 64) Dechtiar & Christie 1988 (ON); 65) Dechtiar et al. 1988 (ON); 66) Dechtiar & Lawrie 1988 (ON); 67) Stock 1988 (AB - Jarvis Lake); 68) Marcogliese & Cone 1991b (NF); 69) Nelson & Paetz 1992 (AB unspecified)

*Diphyllobothridae gen. sp.

Sites: coelom, heart, mesenteries, musculature, pericardium, viscera

Loia lota (4) Hosts:

> Salvelinus fontinalis (1, 2, 5) Stizostedion vitreum (3)

Distribution: MB, QC

1) Richardson 1936 (QC); 2) Records: Choquette 1948a (QC); 3) Stewart-Hay 1951g (MB); 4) Stewart-Hay 1953a (MB); 5) Hoffman & Dunbar 1961 (QC)

FAMILY LIGULIDAE

*Ligula intestinalis (Linnaeus, 1758) Gmelin, 1790

Site: coelom

Hosts: Carpiodes cyprimus (37)

Catostomus catostomus (2, 7, 11,

17, 26, 30, 33, 34, 36, 40)

Catostomus commersoni (2, 3, 8, 9,

10, 11, 12, 13, 15, 16, 17, 18, 19, 21, 23,

25, 29, 31, 32, 33, 35, 36, 37, 38, 39, 42)

Catostomus macrocheilus (7) Cottus cognatus (24, 27)

Couesius plumbeus (7, 28)

Culaea inconstans (2)

Gasterosteus aculeatus (1)

Hiodon alosoides (37, 39)

Hybognathus hankinsoni (20) Notropis hudsonius (2, 3, 6, 8, 12, 14, 15, 17, 18, 19, 22, 28, 34, 37, 39, 40) Perca flavescens (1, 2, 4, 7, 14, 15, 33, 37, 40, 41) Phoxinus eos (4) Pimephales promelas (20, 36) Prosopium williamsoni (7) Ptychocheilus oregonensis (6, 7, 26, 30)

Richardsonius balteatus (7, 24, 27) Salvelinus fontinalis (5, 7)

Distribution: AB, BC, MB, NB, ON, QC, SK

Records: 1) Cooper 1919 (ON); 2) Wardle 1932 (MB, SK); 3) Bangham & Hunter 1939 (ON); 4) Bangham & Venard 1946 (ON); 5) Choquette 1948a (QC); 6) Stewart-Hay 1951g (MB); 7) Bangham & Adams 1954 (BC); 8) Lawler 1954a (MB); 9) Roussow 1954 (QC); 10) Bangham 1955 (ON); 11) Rawson 1957b (SK); 12) Lawler & Watson 1958 (MB); 13) Rawson 1959 (SK); 14) Paetz & Nelson 1970 (AB - unspecified); 15) Lawler 1964c (MB); 16) Dickson 1964 (MB); 17) Lawler 1965e (MB); 18) Lawler 1966a (MB); 19) Dechtiar 1972a (ON); 20) Kakonge 1972 (ON); 21) Molnar et al. 1974 (ON); 22) Mahon 1976 (ON); 23) Mudry & Anderson 1977 (AB - Vista Lake); 24) Anonymous 1978 (BC); 25) Chan 1980 (ON); 26) Anonymous 1981 (BC); 27) Arai & Mudry 1983 (BC); 28) Drouin 1982 (AB - McGregor Lake (C. plumbeus), Travers Reservoir (N. hudsonius); 29) Mackie et al. 1983 (ON); 30) Anonymous 1984 (BC); 31) Black & Fraser 1984 (ON); 32) Dechtiar & Christie 1988 (ON); 33) Dechtiar et al. 1988 (ON); 34) Dechtiar & Lawrie 1988

(ON); 35) Dechtiar & Nepszy 1988 (ON); 36) Dechtiar et al. 1989 (ON); 37) Szalai et al. 1989 (MB); 38) Dais 1990 (AB - McGregor Lake); 39) Szalai et al. 1992 (MB); 40 Nelson & Paetz 1992 (AB - unspecified); 41) Zelmer 1994 (AB - Hastings Lake, Pigeon Lake); 42) Dubois et al. 1996 (QC)

*Ligula sp.

Site: coelom Catostomus catostomus (3, 9, 10, Hosts: 11, 13) Catostomus commersoni (2, 9, 10) Coregonus clupeaformis (5) Culaea inconstans (5) Esox lucius (4) Lota lota (8) Notropis hudsonius (4, 6, 9) Rhinichthys cataractae (5, 10) Richardsonius balteatus (10) Salvelinus fontinalis (1, 2) Distribution: AB, MB, ON, QC 1) Ricker 1932 (ON); 2) Records: Fantham & Porter 1948 (QC); 3) Rawson & Elsey 1950 (AB - Pyramid Lake); 4) Stewart-Hay 1952b (MB); 5) Stewart-Hay 1953a (MB); 6) Lawler 1953b (MB); 7) Pawson 1959 (SK); 8) Fillion 1961 (AB - Lac Ste. Anne); 9) Lawler 1961c (MB); 10) Nelson 1964 (AB - Barrier Reservoir, Lower Kananaskis Lake, Upper Kananaskis Lake); 11) Paetz &

FAMILY SCHISTOCEPHALIDAE

Nelson 1970 (AB - unspecified); 12)

Samuel 1985 (AB - Cache Lake); 13)

Nelson & Paetz 1992 (AB - unspecified)

*Schistocephalus pungitii Dubinina, 1959

Site: coelom

Host: Pungitius pungitius

Distribution: NS

Records: Marcogliese 1992; Marcogliese

1995

*Schistocephalus solidus (Müller, 1776) Steenstrup, 1858

Site: coelom

Hosts: Cottus cognatus (1, 9, 10, 23)

Cottus sp. (3)

Culaea inconstans (5, 8, 9, 10, 16,

33)

Esox lucius (24)

Gasterosteus aculeatus (1, 12, 13,

14, 15, 17, 18, 19, 21, 22, 25, 26, 27, 28,

29, 31)

Notropis hudsonius (7)

Oncorhynchus kisutch (24)

Perca flavescens (20, 30)

Pungitius pungitius (2, 19, 24, 32)

Salvelinus fontinalis (11) Salvelinus namaycush (4, 5)

Distribution: AB, BC, LB, MB, NB, NT,

ON, QC, SK, YT

Records: 1) Cooper 1919 (ON); 2)
Cooper 1921 (ON); 3) Wardle 1933c
(QC); 4) Miller 1945e (NT); 5) Miller &
Macdonald 1950 (AB - Cottage Lake);
6) Rawson 1951 (NT); 7) Stewart-Hay
1951b (MB); 8) Stewart-Hay 1951d
(MB); 9) Lawler 1954a (MB); 10) Lawler
& Watson 1958 (MB); 11) Sandeman &
Pippy 1967 (NF); 12) Morris & Finnegan
1968 (BC); 13) Morris & Finnegan 1969
(BC); 14) Threlfall 1968 (NF); 15) Hanek
& Threlfall 1970a (LB, NF); 16) Paetz &
Nelson 1970 (AB - unspecified); 17)

Lester 1971b (BC); 18) Scott & Crossman 1973 (ON); 19) Hanek & Molnar 1974 (QC); 20) Molnar et al. 1974 (ON); 21) Lester 1975 (BC); 22) Leong 1975 (AB - Cold Lake); 23) Arthur et al. 1976 (YT); 24) Leong & Holmes 1981 (AB - Cold Lake); 25) Curtis 1982 (NT); 26) Holloway & Curtis 1982 (QC); 27) Reimchen 1982 (BC); 28) McPhail & Peacock 1983 (BC); 29) Cone & Ryan 1984 (NF); 30) Poole & Dick 1985 (MB); 31) Godin & Sproul 1988 (NB); 32) Dechtiar et al. 1988 (ON); 33) Dechtiar et al. 1989 (ON)

*Schistocephalus sp.

Site: coelom

Hosts: Catostomus catostomus (5)
Coregonus clupeaformis (1)
Culaea inconstans (5, 12)
Gasterosteus aculeatus (3, 5, 6)
Notropis hudsonius (2)
Oncorhynchus mykiss (5)
Perca flavescens (7, 9)
Prosopium williamsoni (5)
Pungitius pungitius (4, 8, 10, 11)
Richardsonius balteatus (5)

Distribution: **AB**, BC, MB, NB, NT, ON, OC

Records: 1) Bangham & Hunter 1939 (ON); 2) Miller & Macdonald 1950 (AB- Conjuring Lake); 3) Dunbar & Hildebrand 1952 (QC); 4) Stewart-Hay 1952b (MB); 5) Bangham & Adams 1954 (BC); 6) Manzer 1976 (BC); 7) Pybus & Samuel 1978 (AB - Cache Lake); 8) Curtis 1981 (NT); 9) Samuel 1981 (AB - Cache Lake); 10) Curtis 1982 (NT)

ORDER SPATHEBOTHRIDEA

FAMILY BOTHRIMONIDAE

Bothrimonas sturionis Duvernoy, 1842

Synonyms: *Bothrimonas intermedius*Cooper, 1917; *Diplocotyle olrikii* Krabbe, 1874

Sites: intestine, pyloric caeca
Hosts: Coregonus artedii (2, 3)
Coregonus clupeaformis (2, 3, 6)
Salmo trutta (5)
Salvelinus fontinalis (2, 3, 4)
Salvelinus malma (1)
Salvelinus namaycush (6)

Distribution: LB, MB, NB, NT
Records: 1) Cooper 1921 (NT); 2)
Wardle 1932 (MB); 3) Wardle 1933b
(MB); 4) Hicks & Threlfall 1973 (LB); 5)
MacKinnon & Burt 1982 (NB); 6)
Stewart & Bernier 1983 (NT)

FAMILY CYATHOCEPHALIDAE

Cyathocephalus truncatus (Pallas, 1781) Kessler, 1868

Esox lucius (18, 21) Gasterosteus aculeatus (15, 25) Lota lota (16, 24) Myoxocephalus thompsoni (23) Oncorhynchus kisutch (14, 16,

24)
Oncorhynchus mykiss (22, 27)
Perca flavescens (12, 13, 19, 29,

30)

Prosopium cylindraceum (17, 30)
Salvelinus confluentus (4)
Salvelinus fontinalis (32)
Salvelinus fontinalis X Salvelinus
namaycush (19, 30)

Salvelinus malma (22, 27) Salvelinus namaycush (2, 14, 17, 24, 28)

Distribution: **AB**, BC, CA, MB, NT, ON, YT

Records: 1) Cooper 1919 (ON); 2) Cooper 1921 (NT); 3) Hart 1931 (ON); 4) Wardle 1932 (AB - Spray Lakes, MB); 5) Bangham & Hunter 1939 (ON); 6) Miller 1944b (NT); 7) Miller 1944e (NT); 8) Miller 1945e (AB - Lake Athabasca); 9) Rawson 1951 (NT); 10) McTavish 1952 (MB); 11) Bangham 1955 (ON); 12) Dechtiar & Loftus 1965 (ON); 13) Dechtiar 1972a (ON); 14) Leong & Holmes 1974a (AB - Cold Lake); 15) Lester 1975 (BC); 16) Leong 1975 (AB -Cold Lake); 17) Arthur et al. 1976 (YT); 18) Watson 1977 (MB); 19) Dechtiar & Berst 1978 (ON); 20) Watson & Dick 1979 (MB); 21) Watson & Dick 1980 (MB); 22) Anonymous 1981 (BC); 23) Black & Lankester 1981a (ON); 24) Leong & Holmes 1981 (AB - Cold Lake); 25) Reimchen 1982 (BC); 26) McCart et al. 1982 (AB - Athabasca River, Lake Athabasca); 27)

Anonymous 1984 (BC); 28) Stewart &

Bernier 1984 (NT); 29) Dechtiar & Christie 1988 (ON); 30) Dechtiar et al. 1988 (ON); 31) Dechtiar & Lawrie 1988 (ON); 32) Curtis 1988 (CA); 33) Hobbs (undated) (AB - Lesser Slave Lake)

Cyathocephalus sp.

Site: digestive tract

Hosts: Stizostedion vitreum (2) Thymallus arcticus (1)

Distribution: AB, NT

Records: 1) Miller 1946a (NT); 2)
Pybus & Samuel 1978 (AB - Cold
Lake)

ORDER TETRAPHYLLIDEA

FAMILY PHYLLOBOTHRIIDAE

Phyllobothrium caudatum (Zschokke and Heitz, 1914) Zmeev, 1936

Synonyms: *Phyllobothrium salmonis*Fujita, 1922; *Phyllobothrium ketae*Canavan, 1928

Sites: intestine, pyloric caeca

Hosts: Oncorhynchus kisutch (1, 2)

Salvelinus malma (2)

Distribution: BC

Records: 1) Anonymous 1981; 2) Anonymous 1984

Phyllobothrium sp.

Site: unspecified
Host: Salvelinus malma

Distribution: BC

Record: Bangham & Adams 1954

Tetraphyllidea gen. sp.

Site: intestine

Hosts: Acipenser fulvescens (3)

Salvelinus fontinalis (1, 2)

Distribution: MB, NB

Records: 1) Frimeth 1987a (NB); 2) Frimeth 1987b (NB); 3) Choudhury &

Dick 1993 (MB)

*Cestoidea gen. sp.

Sites: mesenteries, musculature, viscera

Hosts: Coregonus artedii (1)

Coregonus clupeaformis (2)
Perca flavescens (3, 4)

Salvelinus namaycush (5, 6)
Distribution: AB, ON, NT, QC

Records: 1) Pritchard 1931 (ON); 2)
McLeod 1943 (MB); 3) Fantham &
Porter 1948 (QC); 4) Harvey 1955 (MB);
5) Cuerrier & Schultz 1957 (AB Lower Waterton Lake, Upper

Waterton Lake); 6) Stewart & Bernier

1983 (NT)

Cestoidea gen. sp.

Site: digestive tract

Hosts: Acipenser fulvescens (13)

Catostomus catostomus (17, 20)

Coregonus artedii (11)

Coregonus clupeaformis (2, 5, 8,

11, 19, 21)

Esox lucius (5, 9, 10, 11, 12, 18,

22)

Gasterosteus aculeatus (14) Moxostoma anisurum (5)

Oncorhynchus mykiss (17, 20)

Perca flavescens (7)

Ptychocheilus oregonensis (20)

Salvelinus confluentus (1, 4)

Salvelinus fontinalis (3, 15)

Salvelinus malma (17, 20)

Salvelinus namaycush (3)

Stizostedion canadense (11)

Stizostedion vitreum (5, 6, 10, 11, 16, 18)

Distribution: AB, BC, MB, NF, NS, NT, ON, QC, SK

Records: 1) Neave & Bajkov 1929

[AB- Annette Lake (C. catostomus),

Jacques Lake (S. confluentus); 2) Bajkov 190 (MB); 3) Ricker 1932 (ON);

4) Rawson 1939 (AB - Mystic Lake); 5)

McLeod 1943 (MB); 6) McLeod & Moir 1944 (MB); 7) Fantham & Porter 1948

(QC); 8) Wheaton & Hazen 1951 (SK);

9) Stewart-Hay 1951e (MB); 10)

Stewart-Hay 1951h (MB); 11) McTavish

1952 (MB); 12) Stewart-Hay 1953b (MB); 13) Harkness & Dymond 1961

(ON); 14) Threlfall 1968 (NF); 15)

Frantsi et al. 1975 (NS); 16) Pybus &

Samuel 1978 (AB - Cold Lake); 17)

Anonymous 1981 (BC); 18) Kinnis &

Curtis 1981 (QC); 19) McAllister &

Mudry 1983 [AB - McGregor Lake (C.

clupeaformis); Cornwall Lake (S.

namaycush)]; 20) Anonymous 1984 (BC); 21) Stewart & Bernier 1984 (NT);

22) Samuel 1985 (AB - Jarvis Lake)

PHYLUM NEMATHELMINTHES

CLASS NEMATODA

CLASS ADENOPHORA

ORDER ENOPLIDA

SUPERFAMILY DIOCTOPHYMATOIDEA

FAMILY DIOCTOPHYMATIDAE

*Eustrongylides tubifex (Nitzsch in Rudolphi, 1819) Jägerskiöld, 1909

Site: mesenteries

Hosts: Catostomus catostomus (7) Catostomus commersoni (3, 6, 7)

Culaea inconstans (7)
Perca flavescens (1, 2, 3, 4, 5, 6, 7)
Stizostedion vitreum (4)

Distribution: ON

Records: 1) Measures 1987; 2) Measures 1988a; 3) Measures 1988b; 4) Dechtiar & Christie 1988; 5) Dechtiar et al. 1988; 6) Dechtiar & Nepszy 1988; 7) Dechtiar et al. 1989

*Eustrongylides sp.

Sites: coelom, gonads, mesenteries,

musculature, viscera

Hosts: Catostomus commersoni (1, 2, 3,

18)

Catostomus macrocheilus (3) Cottus cognatus (11, 13) Gasterosteus aculeatus (3, 7, 9) Lota lota (11, 12, 13, 14) Oncorhynchus clarki (3, 10) Oncorhynchus kisutch (4) Oncorhynchus mykiss (10, 11, 13,

14)

Perca flavescens (5, 6, 8) Prosopium cylindraceum (3) Prosopium williamsoni (3, 11, 12,

13, 14, 17)

Ptychocheilus oregonensis (11,

12, 13, 14)

Salvelinus fontinalis (15, 16) Salvelinus malma (3, 11, 13) Salvelinus namaycush (3, 14) Stizostedion canadense (5, 6) Stizostedion vitreum (6)

Distribution: BC, NB, ON, QC

Records: 1) Bangham 1941 (ON); 2)
Bangham & Venard 1946 (ON); 3)
Bangham & Adams 1954 (BC); 4)
Godfrey 1968 (BC); 5) Dechtiar 1972a
(ON); 6) Dechtiar 1972b (ON); 7) Hanek
& Molnar 1974 (QC); 8) Molnar et al.
1974 (ON); 9) Lester 1975 (BC); 10)
Hoskins et al. 1976 (BC); 11) Anonymous
1978 (BC); 12) Anonymous 1981 (BC);
13) Arai & Mudry 1983 (BC); 14)
Anonymous 1984 (BC); 15) Frimeth
1987a (NB); 16) Frimeth 1987b (NB);
17) Nener et al. 1995 (BC); 18) Couillard
et al. 1995 (OC)

SUPERFAMILY TRICHUROIDEA

FAMILY CAPILLARIIDAE

Pseudocapillaria (Ichthyocapillaria) salvelini (Polyansky, 1852) Moravec, 1982

Synonym: Capillaria salvelini Polyansky, 1952 Site: digestive tract

Hosts: Coregonus clupeaformis (3, 6, 15) Oncorhynchus clarki (1)

Oncorhynchus kisutch (1, 8, 9 10,

11, 14)

Oncorhynchus mykiss (15) Prosopium cylindraceum (3, 5, 15) Salvelinus fontinalis (1, 2, 3, 4, 6,

12, 13, 16)

Salvelinus fontinalis X Salvelinus namaycush (7)

Salvelinus malma (11)

Salvelinus namaycush (3, 5, 6, 8,

10)

Thymallus arcticus (5)

Distribution: BC, LB, NB, NF, ON, QC, YT

Records: 1) Threlfall & Hanek 1969
(NF); 2) Threlfall & Hanek 1970c (NF);
3) Hicks & Threlfall 1973 (LB); 4) Hanek
& Molnar 1974 (QC); 5) Arthur et al.
1976 (YT); 6) Chinniah & Threlfall 1978
(LB); 7) Dechtiar & Berst 1978 (ON); 8)
Moravec 1980 (BC, NF, ON, YT); 9)
Anonymous 1981 (BC); 10) Bell &
Beverley-Burton 1981 (BC, NB, YT); 11)
Anonymous 1984 (BC); 12) Frimeth
1987a (NB); 13) Frimeth 1987b (NB);
14) Dechtiar & Christie 1988 (ON); 15)
Dechtiar & Lawrie 1988 (ON); 16)
Marcogliese & Cone 1991b (NF)

Pseudocapillaria (Pseudocapillaria) tomentosa (Dujardin, 1843) Moravec, 1987

Synonyms: Capillaria catostomi Pearse, 1924; Hepaticola bakeri Mueller and Van Cleave, 1932 (partim); Skrjabinocapillaria bakeri (Mueller and Van Cleave, 1932) Skrjabin and Shikhobalova, 1954

Site: intestine

Hosts: Catostomus catostomus (1, 3) Catostomus commersoni (1, 4, 6, 7,

8)

Catostomus macrocheilus (3)
Coregonus clupeaformis (8)
Couesius plumbeus (3)
Lota lota (1, 2, 5)
Oncorhynchus clarki (3)
Oncorhynchus kisutch (3)
Oncorhynchus mykiss (3)
Prosopium williamsoni (3)
Ptychocheilus oregonensis (3)

Richardsonius balteatus (3)

Salvelinus fontinalis (2, 3) Salvelinus malma (3)

Distribution: BC, ON

Records: 1) Bangham 1941 (ON); 2)
Bangham & Venard 1946 (ON); 3)
Bangham & Adams 1954 (BC); 4)
Bangham 1955 (ON); 5) Dechtiar 1972a
(ON); 6) Bell & Beverley-Burton 1980
(ON); 7) Moravec 1980 (ON); 8) Bell &
Beverley-Burton 1981 (ON)

Capillaria (Capillaroides) catenata Van Cleave and Mueller, 1932

Synonym: *Thominx catenata* (Van Cleave and Mueller, 1932) Skrjabin and Shikhobalova, 1954)

Site: intestine

Host: Catostomus commersoni

Distribution: QC

Record: Fantham & Porter 1948

Capillariidae gen. sp.

Site: [intestine]

Hosts: Oncorhynchus mykiss

Ptychocheilus oregonensis

Distribution: BC

Record: Anonymous 1984

SUBCLASS SECERNENTEA

ORDER ASCARIDIDA

SUPERFAMILY ASCARIDOIDEA

FAMILY ANISAKIDAE

*Contracaecum spiculigerum (Rudolphi, 1809) Railliet and Henry, 1912

Sites: liver, mesenteries

Hosts: Perca flavescens (2, 3, 4, 5)

Ptychocheilus oregonensis (1)

Distribution: AB, BC, ON

Records: 1) Bangham & Adams 1954
(BC); 2) Tedla & Fernando 1969a (ON);
3) Tedla 1969 (ON); 4) Tedla & Fernando 1972 (ON); 5) Zelmer 1994 (AB - Elkwater Lake, Fincastle Lake, Rattlesnake Lake, Sherburne Lake, Spruce Coulee Reservoir)

*Contracaecum sp.

Sites: coelom, mesenteries, musculature, viscera

Hosts: Catostomus commersoni (4, 5, 6, 14, 16)

Coregonus clupeaformis (8, 17) Culaea inconstans (10, 11) Esox lucius (14)
Etheostoma exile (5)
Gasterosteus aculeatus (3, 13)
Moxostoma anisurum (14)
Notropis atherinoides (14)
Notropis hudsonius (5, 14)
Oncorhynchus clarki (2)
Oncorhynchus mykiss (11)
Perca flavescens (1, 5, 12, 14)
Percina caprodes (5)
Phoxinus eos (16)

Pimephales promelas (9, 10, 11)

Pungitius pungitius (10, 11, 13,

15)
Salvelinus fontinalis (7, 16)
Salvelinus malma (2)
Stizostedion vitreum (1)

Distribution: **AB**, BC, LB, MB, NF, NS, ON, QC

Records: 1) Worley & Bangham 1952 (QC); 2) Bangham & Adams 1954 (BC); 3) Hanek & Threlfall 1970a (NF); 4) Threlfall & Hanek 1970a (LB); 5) Dechtiar 1972a (ON); 6) Kakonge 1972 (ON); 7) Hicks & Threlfall 1973 (LB); 8) Drouin 1982 (AB - McGregor Lake); 9) McAllister & Mudry 1983 (AB -Cardinal Lake): 10) Dick 1987 (MB); 11) Dick et al. 1987 (MB); 12) Szalai & Dick 1991a (MB); 13) Marcogliese 1992 (NS); 14) Szalai et al. 1992 (MB); 15) Marcogliese 1995 (NS); 16) Dubois et al. 1996 (QC); 17) Hobbs (undated) (AB -Lesser Slave Lake)

**Hysterothylacium aduncum (Rudolphi, 1802) Deardorff and Overstreet, 1981

Synonyms: Contracaecum gadi (O. F. Müller, 1777); Contracaecum clavatum (Rudolphi, 1809); Contracaecum

aduncum Rudolphi, 1802; Thynnascaris adunca (Rudolphi, 1802) Hartwich, 1957
Sites: coelom, digestive tract, mesenteries, musculature, viscera Hosts: Salvelinus namaycush
Distribution: NT
Records: Stewart & Bernier 1983; Stewart & Bernier 1984

*Hysterothylacium brachyurum Ward and Magath, 1917

Synonyms: Contracaecum brachyurum
(Ward and Magath, 1917) Van Cleave
and Mueller, 1934; Thynnascaris
brachyura (Ward and Magath, 1917)
Margolis and Arthur, 1979
Sites: intestine, liver, mesenteries
Hosts: Culaea inconstans (7)
Lota lota (2, 4)
Moxostoma anisurum (1)
Noturus flavus (4)
Perca flavescens (3, 5, 6, 7)
Salvelinus fontinalis (7)

namaycush (7) Salvelinus malma (2) Stizostedion canadense (1)

Salvelinus fontinalis X Salvelinus

Stizostedion vitreum (3)

Distribution: BC, ON
Records: 1) Dechtiar 1972a (ON); 2)
Arai & Mudry 1983 (BC); 3) Dechtiar & Christie 1988 (ON); 4) Dechtiar et al.
1988 (ON); 5) Dechtiar & Lawrie 1988 (ON); 6) Dechtiar & Nepszy 1988 (ON);
7) Dechtiar et al. 1989 (ON)

Hysterothylacium brachyurum Ward and Magath, 1917

Synonyms: Contracaecum brachyurum (Ward and Magath, 1917) Van Cleave and Mueller, 1934; Thynnascaris brachyura (Ward and Magath, 1917) Margolis and Arthur, 1979 Sites: intestine, pyloric caeca Coregonus artedii (8, 12) Hosts: Esox lucius (2, 3, 5, 6, 8, 13, 14, 16, 17, 18, 19) Etheostoma exile (2, 5) Lota lota (1, 4, 6, 7, 9, 15, 18) Notropis atherinoides (6) Perca flavescens (10, 18) Percopsis omiscomaycus (2, 5, 6, 17) Salvelinus fontinalis (1, 18, 20) Salvelinus fontinalis X Salvelinus namaycush (11, 17, 20) Salvelinus malma (9, 15) Salvelinus namaycush (7) Stizostedion canadense (6) Stizostedion vitreum (2, 5, 6, 10, 16, 17) Distribution: AB, BC, MB, ON, QC Records: 1) Bangham & Venard 1946 (ON); 2) Bangham 1951 (ON); 3) Worley & Bangham 1952 (QC); 4) Bangham & Adams 1954 (BC); 5) Bangham 1955 (ON); 6) Dechtiar 1972a (ON); 7) Mudry & Anderson 1977 (AB - Upper Waterton Lake); 8) Watson 1977 (MB); 9) Anonymous 1978 (BC); 10) Anthony 1978b (ON); 11) Dechtiar & Berst 1978 (ON); 12) Watson & Dick 1979 (MB); 13) Watson & Dick 1980 (MB); 14) Anthony 1983 (ON); 15) Arai & Mudry 1983 (BC); 16) Dechtiar & Christie 1988 (ON); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar & Lawrie 1988 (ON); 19) Dechtiar & Nepszy (ON); 20) Dechtiar et al. 1989 (ON)

**Hysterothylacium sp. Percina caprodes (23, 26) Pimephales promelas (16) digestive tract, mesenteries Percopsis omiscomaycus (23) Sites: Hosts: Coregonus clupeaformis (2) Ptychocheilus oregonensis (2, 8) Culaea inconstans (4) Pungitius pungitius (4) Gasterosteus aculeatus (3) Salvelinus fontinalis (29) Oncorhynchus mykiss (2) Salvelinus namaycush (4) Prosopium williamsoni (2) Stizostedion canadense (23, 26) Ptychocheilus oregonensis (2) Stizostedion vitreum (9, 13, 23, Salvelinus fontinalis (1) 26) Salvelinus malma (2) Thymallus arcticus (1) Distribution: BC, ON, QC Distribution: AB, BC, MB, ON, QC, 1) Black 1981 (QC); 2) Records: SK, YT 1) Arthur et al. 1976 (YT); 2) Anonymous 1984 (BC); 3) Dechtiar & Records: Christie 1988 (ON); 4) Dechtiar et al. Anonymous 1978 (BC); 3) Pybus & 1988 (ON) Samuel 1978 (AB - Cache Lake); 4) Leong & Holmes 1981 (AB - Cold Lake); 5) Smith & Anderson 1981 (ON); *Raphidascaris acus (Bloch, 1779) Raillet 6) Samuel 1981 (AB - Blue Lake, Jarvis and Henry, 1915 Lake); 7) Smith & Anderson 1981 (ON); 8) Arai & Mudry 1983 (BC); 9) Poole Synonyms: Raphidascaris canadensis 1983 (MB); 10) Poole & Dick 1984 Smedley, 1933; Raphidascaris (MB); 11) Smith 1984b (ON); 12) Baker laurentianus Richardson, 1937; 1984b (ON); 13) Poole & Dick 1986 Raphidascaris alius Lyster, 1940 (MB); 14) Samuel 1985 (AB - Blue Site: viscera Lake, Jarvis Lake); 15) Shostak & Dick Hosts: Acipenser fulvescens (27) 1986 (MB); 16) Smith 1986 (ON); 17) Catostomus commersoni (9, 15, 16, Anthony 1987 (ON); 18) Dechtiar et al. 23, 26, 29) 1988 (ON); 19) Dechtiar & Lawrie 1988 Coregonus artedii (9, 15, 16, 23, (ON); 20) Stock 1988 (AB - Jarvis 26, 29) Lake); 21) Dechtiar & Nepszy 1988 Coregonus clupeaformis (1, 6, 9, (ON); 22) Dechtiar et al. 1989 (ON); 23) 14, 18) Szalai 1989 (MB); 24) Szalai & Dick Cottus cognatus (1) 1991 (MB); 25) Szalai et al. 1992a (MB); Etheostoma exile (16) 26) Szalai et al. 1992b (MB); 27) Hiodon alosoides (23, 26) Choudhury & Dick 1993 (MB); 28) Lota lota (17) Zelmer 1994 (AB - Carburn Pond, Moxostoma anisurum (23, 26) Elkwater Lake, Fincastle Reservoir, Notropis hudsonius (23, 26) Garner Lake, Pigeon Lake, Pine Lake, Perca flavescens (3, 5, 7, 9, 10, Rattlesnake Reservoir, Sherburne 11,12, 13, 16, 18, 19, 20, 21, 22, 23, Reservoir, Sylvan Lake); 29) Dubois et

al. 1996 (QC); 30) Zelmer & Arai 1998

24, 25, 26, 27, 30)

(AB - Garner Lake)

Raphidascaris acus (Bloch, 1779) Railliet and Henry, 1915

Synonyms: Raphidascaris canadensis Smedley, 1933; Raphidascaris laurentianus Richardson, 1937; Raphidascaris alius Lyster, 1940

Site: intestine

Hosts: Catostomus catostomus (25) Catostomus commersoni (24) Coregonus artedii (24) Coregonus clupeaformis (17, 21, 24, 25, 34)

Esox lucius (1, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 33, 35, 36, 37, 39, 40)

Hiodon alosoides (37, 40) Lota lota (25, 32)

Oncorhynchus mykiss (26) Perca flavescens (12, 21, 24, 27,

28, 31, 37, 38, 40)

Salvelinus fontinalis (2, 3, 25, 26, 41)

Stizostedion vitreum (6, 9, 10, 12, 24, 25, 27, 29, 37, 40)

Distribution: **AB**, LB, MB, NT, ON, QC, SK, YT

Records: 1) Smedley 1933 (MB, SK); 2) Richardson 1937 (QC); 3) Lyster 1940a (QC); 4) McLeod 1944 (MB); 5) Miller 1945d (AB - Lake Athabasca); 6) Rawson 1951 (NT); 7) Stewart-Hay 1951b (MB); 8) Stewart-Hay 1951f (MB); 9) Stewart-Hay 1952a (MB); 10) Stewart-Hay 1952b (MB); 11) Stewart-Hay 1953a (MB); 12) Dickson 1964 (MB); 13) Arthur et al. 1976 (YT); 14) Chinniah & Threlfall 1978 (LB); 15)

Gordon et al. 1978 (QC); 16) Thompson & Threlfall 1978 (QC); 17) Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Jarvis Lake); 18) Kinnis & Curtis 1981 (QC); 19) Leong & Holmes 1981 (AB - Cold Lake); 20) Smith & Anderson 1981 (ON); 21) Samuel 1981 [AB - Jarvis Lake (E. lucius), Cache Lake (P. flavescens)]; 22) Smith & Anderson 1982 (ON); 23) Anthony 1983 (ON); 24) Poole 1983 (MB); 25) Smith 1984a (ON); 26) Smith 1984b (ON); 27) Poole & Dick 1985 (MB); 28) Samuel 1985 [AB - Blue Lake (E. lucius), Cache Lake, Jarvis Lake (E. lucius, P. flavescens)]; 29) Poole & Dick 1986 (MB); 30) Shostak & Dick 1986 (MB); 31) Smith 1986 (ON); 32) Anthony 1987 (ON); 33) Dechtiar et al. 1988 (ON); 34) Stock 1988 (AB - Jarvis Lake); 35) Shostak & Dick 1989 (MB); 36) Szalai & Dick 1989 (MB); 37) Szalai 1989 (MB); 38) Szalai & Dick 1991a (MB); 39) Szalai et al. 1992a; 40) Szalai et al. 1992b (MB); 41) Dubois et al. 1996 (QC)

**Raphidascaris sp.

Sites: digestive tract, liver, musculature
Hosts: Acipenser fulvescens (20, 21)
Coregonus artedii (9, 13)
Coregonus clupeaformis (9, 11,
13, 15, 16, 17)
Esox lucius (2, 3, 6, 7, 8, 9, 12,
14, 15, 16)
Perca flavescens (1, 5, 10)

Perca flavescens (1, 5, 10)
Pungitius pungitius (8)
Salvelinus fontinalis (11, 18, 19)
Salvelinus namaycush (8, 11)
Stizostedion vitreum (4, 10)

Distirbution: AB, LB, MB, NB, ON,

QC, SK

1)Richardson 1937 (QC); 2) Records: McLeod 1943 (MB); 3) McLeod 1944 (MB); 4) Stewart-Hay 1951b (MB); 5) Stewart-Hay 1952a (MB); 6) Stewart-Hay 1953a (MB); 7) Threlfall & Hanek 1970b (LB); 8) Leong 1975 (AB - Cold Lake); 9) Watson 1977 (MB); 10) Anthony 1978b (LB); 11) Chinniah & Threlfall 1978 (LB); 12) Pybus & Samuel 1978 (AB - Angling Lake); 13) Watson & Dick 1979 (MB); 14) Watson & Dick 1980 (MB); 15) Samuel 1981 (AB - Blue Lake, Jarvis Lake); 16) McAllister & Mudry 1983 (AB - Lower Mann Lake, Upper Mann Lake); 17) Samuel 1985 (AB - Jarvis Lake); 18) Frimeth 1987a (NB); 19) Frimeth 1987b (NB); 20) Choudhury et al. 1990 (MB); 21) Choudhury & Dick 1993 (MB, SK)

*Anisakidae gen. sp.

Sites: mesenteries, peritoneum Host: *Prosopium williamsoni*

Distribution: BC

Record: Anonymous 1984

SUPERFAMILY SEURATOIDEA

FAMILY CUCULLANIDAE

Cucullanellus cotylophora (Ward and Magath, 1917) Petter, 1974

Synonyms: Dichelyne cotylophora (Ward and Magath, 1917); Dacnitoides cotylophora Ward and Magath, 1917 Site: intestine

Hosts: Lota lota (11, 15)

Perca flavescens (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19,

20)

Stizostedion vitreum (2, 5, 7, 16)

Distribution: ON, QC

Records: 1) Smedley 1933 (ON); 2) Bangham & Hunter 1939 (ON); 3)

Bangham 1941 (ON); 4) Bangham & Venard 1946 (ON); 5) Bangham 1951

(ON); 6) Worley & Bangham 1952 (QC); 7) Bangham 1955 (ON); 8) Tedla &

Fernando 1969a (ON); 9) Tedla 1969

(ON); 10) Tedla & Fernando 1972 (ON); 11) Dechtiar 1972a (ON); 12) Cannon

1973 (ON); 13) Baker 1984a (ON); 14) Baker 1984b (ON); 15) Anthony 1987

(ON); 16) Dechtiar & Christie 1988

(ON); 17) Dechtiar et al. 1988 (ON); 18)

Dechtiar & Lawrie 1988 (ON); 19) Dechtiar & Nepszy 1988 (ON); 20)

Choudhury & Dick 1996c (MB)

Cucullanus sp.

Site: intestine

Host: Perca flavescens
Distribution: ON

Record: Anthony 1978b

Truttaedacnitis clitellarius (Ward and Magath, 1917) Petter, 1974

Synonym: Cucullanus clitellarius Ward and Magath, 1917

Site: intestine

Host: Acipenser fulvescens

Distribution: CA, MB, ON, SK Records: Bangham & Hunter 1939 (ON); Bangham 1951 (ON); Bangham 1955 (ON); Anthony 1974 (ON); Dechtiar Christie 1988 (ON); Dechtiar & Lawrie 1988 (ON); Choudhury et al. 1990 (MB, SK); Swanson et al. 1991 (MB); Choudhury & Dick 1993 (MB, SK); Choudhury & Dick 1996a (MB, SK); Choudhury & Dick 1996c (CA)

Truttaedacnitis truttae (Fabricius, 1794) Petter, 1974

Synonyms: Bulbodacnitis truttae (Fabricius, 1794) Maggenti, 1971; Bulbodacnitis alpinus Mudry and McCart, 1974

Sites: intestine, pyloric caeca
Hosts: Coregonus clupeaformis (10)
Oncorhynchus clarki (2)

Oncorhynchus mykiss (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14)

Prosopium cylindraceum (2) Prosopium williamsoni (2, 4, 5, 7,

8, 10, 13)

Ptychocheilus oregonensis (7, 10)

Salvelinus fontinalis (2, 11, 12,

14) Salvetinus malma (2, 5, 7, 8, 10,

14) Salvelinus namaycush (4, 5, 8, 10, 14)

Distribution: AB, BC, NB
Records: 1) Smedley 1933 (BC); 2)
Bangham & Adams 1954 (BC); 3) Mudry & McCart 1974 (BC); 4) Mudry & Anderson 1977 [AB - Lower Waterton Lake (P. williamsoni), Pyramid Lake (O. mykiss, P. williamsoni, S. namaycush)]; 5) Anonymous 1978 (BC); 6) Russell 1980 (BC); 7) Anonymous 1981 (BC); 8) Arai & Mudry 1983 (BC);

9) Dunn et al. 1983 (BC); 10) Anonymous 1984 (BC); 11) Frimeth 1987a (NB); 12) Frimeth 1987b (NB); 13) Nener et al. 1995 (BC); 14) Choudhury & Dick 1996c (BC, NB)

Truttaedacnitis sp.

Synonym: Bulbodacnitis sp.

Site: not specified

Hosts: Rhinichthys cataractae Richardsonius balteatus Salvelinus fontinalis

Distribution: BC

Record: Bangham & Adams 1954

FAMILY QUIMPERIDAE

Haplonema hamulatum Moulton, 1931

Synonyms: Ichtyobronema conoura (v. Linstow, 1885) sensu Gnedina and Savina (1930); Ichtyobronema gnedini Sudarikov and Ryzhikov, 1952;

Cottocomephoronema problematica Layman, 1933; C. hamulatum (Moulton, 1931) Sudarikov and Ryzhikov, 1952

Site: intestine

Hosts: Lota lota (1, 2, 3, 4, 5, 6, 7, 8, 9,

10, 11, 12, 13, 14, 15)

Oncorhynchus mykiss (9, 12) Prosopium williamsoni (9, 12) Salvelinus malma (9, 12)

Distribution: AB, BC, ON, YT
Records: 1) Moulton 1931 (ON); 2)
Bangham & Hunter 1939 (ON); 3)
Bangham 1941 (ON); 4) Bangham &
Venard 1946 (ON); 5) Bangham 1951
(ON); 6) Bangham 1955 (ON); 7) Arthur

& Margolis 1975 (YT); 8) Arthur et al. 1976 (YT); 9) Anonymous 1978 (BC); 10) Anonymous 1981 (BC); 11) Leong & Holmes 1981 (AB - Cold Lake); 12) Arai & Mudry 1983 (BC); 13) Anonymous 1984 (BC); 14) Dechtiar et al. 1988 (ON); 15) Dechtiar & Lawrie 1988 (ON)

Haplonema sp.

Site: intestine

Hosts: Cottus cognatus (1)

Lota lota (2, 3)

Distribution: AB, BC, LB

1) Bangham & Adams 1954 Records: (BC); 2) Threlfall & Hanek 1971 (LB); 3) Leong 1975 (AB - Cold Lake)

*Seuratinae gen. sp.

[digestive tract] Site: Host: Salvelinus fontinalis Distribution:

OC Black 1981a Record:

ORDER SPIRURIDA

SUBORDER CAMALLANINA

SUPERFAMILY CAMALLANOIDEA

FAMILY CAMALLANIDAE

Camallanus ancylodirus Ward and Magath,

1916

Site: intestine

Host: Carpiodes cyprinus

Distribution: ON

Record: Dechtiar & Nepszv 1988

**Camallanus oxycephalus Ward and Magath, 1917

Site: intestine

Carpiodes cyprinus (3, 7) Hosts:

Catostomus commersoni (4, 5)

Culaea inconstans (4)

Esox lucius (6)

Etheostoma exile (4, 6)

Hiodon tergisus (1)

Lota lota (4)

Notropis atherinoides (1)

Notropis hudsonius (1)

Noturus flavus (1)

Oncorhynchus kisutch (6)

Perca flavescens (1, 4, 7)

Percina caprodes (1, 4, 6)

Percopsis omiscomaycus (1)

Rhinichthys cataractae (1)

Stizostedion canadense (1, 4)

Stizostedion vitreum (1, 7)

Distribution: ON

Records: 1) Bangham & Hunter 1939; 2)

Bangham 1955; 3) Dechtiar 1972b; 4)

Dechtiar 1972a; 5) Chan 1980; 6)

Dechtiar & Christie 1988; 7) Dechtiar &

Nepszy 1988

Camallanus sp.

Site: [intestine]

Hosts: Esox lucius (2)

Perca flavescens (1, 3)

Distribution: LB, ON

Records: 1) Tedla 1969 (ON); 2)
Threlfall & Hanek 1970b (LB); 3) Tedla
& Fernando 1972 (ON)

SUPERFAMILY DRACUNCULOIDEA

FAMILY PHILOMETRIDAE

**Philometra cylindracea (Ward and Magath, 1917) Van Cleave and Mueller, 1934

Site: coelom

Hosts: *Perca flavescens* (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13)

Salvelinus fontinalis (2)

Distribution: ON, QC

Records: 1) Bangham & Hunter 1939
(ON); 2) Fantham & Porter 1948 (QC);
3) Bangham 1951 (ON); 4) Bangham
1955 (ON); 5) Tedla 1969 (ON); 6) Tedla
& Fernando 1969a (ON); 7) Tedla &
Fernando 1972 (ON); 8) Dechtiar 1972a
(ON); 9) Molnar et al. 1974 (ON); 10)
Molnar & Fernando 1975a (ON); 11)
Dechtiar & Christie 1988 (ON); 12)
Dechtiar et al. 1988 (ON); 13) Dechtiar &
Nepszy 1988 (ON)

Philometra kobuleji Molnar and Fernando, 1975

Sites: coelom, mesenteries, swin bladder

Host: Catostomus commersoni

Distribution: ON

Records: Molnar & Fernando 1975b; Chan 1980; Molnar et al. 1982 **Philometra sp.

Sites: circulatory system, coelom, eyes,

gills, intestine

Hosts: Catostomus catostomus (5)

Catostomus commersoni (6, 7, 8)

Coregonus artedii (2, 3)

Coregonus clupeaformis (2, 3)

Perca flavescens (1, 4)

Prosopium cylindraceum (2, 3, 7)

Salvelinus fontinalis (1)

Distribution: ON, QC

Records: 1) Fantham & Porter 1948 (QC); 2) Bangham 1951 (ON); 3)

Bangham 1955 (ON); 4) Dechtiar 1972a (ON); 5) Hanek & Molnar 1974 (QC); 6)

Molnar et al. 1974 (ON); 7) Mackie et al.

1983 (ON); 8) Dechtiar et al. 1989 (ON)

Philometroides huronensis Uhazy, 1976

Sites: fins, swim bladder

Hosts: Catostomus catostomus (4, 6, 10)

Catostomus commersoni (1, 2, 3,

4, 5, 6, 7, 8, 9, 10, 11)

Catostomus macrocheilus (6, 10)

Moxostoma macrolepidotum (4)

Distribution: BC, ON

Records: 1) Uhazy 1976 (ON); 2) Uhazy & Anderson 1976 (ON); 3) Uhazy 1977a (ON); 4) Uhazy 1977b (ON); 5) Uhazy 1978 (ON); 6) Anonymous 1978 (BC); 7) Chan 1980 (ON); 8) Molnar et al. 1982 (ON); 9) Arai & Mudry 1983 (BC); 10) Mackie et al. 1983 (ON); 11) Dubois et al. 1996 (OC)

Philometroides nodulosa (Thomas, 1929) Dailey, 1967 Synonym: *Philometra nodulosa* Thomas, 1929

Sites: cheek galleries, subcutaneous fissures

Hosts: Carpiodes cyprinus (2, 7)
Catostomus catostomus (6)
Catostomus commersoni (1, 3, 4,

5, 6, 7, 8, 9, 10, 11)

Distribution: MB, ON, QC

Records: 1) Fantham & Porter 1948 (QC); 2) Dechtiar 1972a (ON); 3) Chan 1980 (ON); 4) Molnar et al. 1982 (ON); 5) Dechtiar & Christie 1988 (ON); 6) Dechtiar et al. 1988 (ON); 7) Dechtiar & Nepszy 1988 (ON); 8) Dechtiar et al. 1989 (ON); 9) Szalai 1989 (MB); 10) Szalai et al. 1992 (MB); 11) Dubois et al. 1996 (QC)

*Philometroides sp.

Site: eye

Host: Catostomus commersoni

Distribution: ON Record: Chan 1980

Philonema agubernaculum Simon and Simon, 1936

Sites: coelom, swim bladder

Hosts: Coregonus artedii (6, 7, 10)

Coregonus clupeaformis (4, 6, 14)

Gasterosteus aculeatus (5)

Oncorhynchus kisutch (6, 7, 9, 10, 19)

Oncorhynchus mykiss (3, 7, 8, 9, 10, 11, 13, 14, 16, 17, 19)

Prosopium cylindraceum (4)

Prosopium williamsoni (7, 8, 9, 10, 11, 14, 18)

Salvelinus fontinalis (1, 2, 4, 5,

Salvelinus malma (10, 14)
Salvelinus namaycush (4, 6, 7, 12, 14, 15)

Distribution: **AB**, BC, EXP, LB, NF, NT, QC

Records: 1) Richardson 1936 (QC); 2) Sandeman & Pippy 1967 (NF); 3) Ko & Anderson 1969 (BC); 4) Hicks & Threlfall 1973 (LB); 5) Hanek & Molnar 1974 (QC); 6) Leong & Holmes 1974a (AB - Cold Lake); 7) Leong 1975 (AB -Cold Lake); 8) Anonymous 1978 (BC); 9) Anonymous 1981 (BC); 10) Leong & Holmes 1981 (AB - Cold Lake); 11) Arai & Mudry 1983 (BC); 12) Stewart & Bernier 1983 (NT); 13) Bashirullah 1983 (EXP); 14) Anonymous 1984 (BC); 15) Stewart & Bernier 1984 (NT); 16) Marcogliese & Cone 1991b (NF); 17) Adamson et al. 1992 (BC); 18) Nener et al. 1995 (BC); 19) Despres et al. 1995 (BC)

**Philonema oncorhynchi Kuitunen-Ekbaum, 1933

Sites: coelom, swim bladder

Hosts: Coregonus artedii (1)

Coregonus clupeaformis (1)

Oncorhynchus clarki (1, 2)

Oncorhynchus kisutch (2)

Oncorhynchus mykiss (2, 3, 4)

Salvelinus fontinalis (1)

Salvelinus malma (2)

Salvelinus namaycush (1)

Distribution: BC, EXP, NS, ON Records: 1) Kuitunen-Ekbaum 1937b (BC, NS, ON); 2) Bangham & Adams 1954 (BC); 3) Bell & Hoskins 1971 (BC);

4) Bashirullah 1983 (EXP)

**Philonema sp.

Site: coelom

Hosts: Catostomus commersoni (11)
Coregonus artedii (2, 5, 7, 12)
Coregonus clupeaformis (9, 10)
Esox lucius (5)
Oncorhynchus clarki (8)
Oncorhynchus mykiss (9, 10)
Prosopium cylindraceum (6)
Prosopium williamsoni (6, 9, 10)
Salvelinus fontinalis (4)
Salvelinus malma (9, 10)
Salvelinus namaycush (1, 2, 3, 5,

10)

Thymallus arcticus (9, 10)

Distribution: AB, BC, LB, MB, NT, ON Records: 1) MacLulich 1943b (ON); 2)

Miller 1945d (AB - Lake Athabasca (S. namaycush), NT (C. artedii); 3) Miller & Kennedy 1948 (NT); 4) Munroe 1949 (LB); 5) Rawson 1951 (NT); 6) Bangham & Adams 1954 (BC); 7) Paetz & Nelson 1970 (AB - unspecified); 8) Hoskins et al. 1976 (BC); 9) Anonymous 1978 (BC); 10) Arai & Mudry 1983 (BC); 11) Poole 1983 (MB); 12) Nelson & Paetz 1992 (AB - unspecified)

SUPERFAMILY GNATHOSTOMATOIDEA

FAMILY GNATHOSTOMATIDAE

*Spiroxys contortus (Rudolphi, 1819) Schneider, 1866 Site: mesenteries
Host: Perca flavescens
Distribution: ON

Record: Molnar et al. 1974

*Spiroxys sp.

Sites: digestive tract, mesenteries,

viscera

Hosts: Catostomus commersoni (4)
Catostomus macrocheilus (1)
Culaea inconstans (7)
Perca flavescens (2, 3, 5)
Phoxinus neogaeus (7)
Ptychocheilus oregonensis (1)

Rhinichthys cataractae (6)
Richardsonius balteatus (1)

Distribution: BC, ON

Records: 1) Bangham & Adams 1954 (BC); 2) Bangham 1951 (ON); 3) Bangham 1955 (ON); 4) Dechtiar 1972a (ON); 5) Baker 1984b (ON); 6) Dechtiar & Lawrie1988 (ON); 7) Dechtiar et al. 1989 (ON)

SUBORDER SPIRURINA

SUPERFAMILY HABRONEMATOIDEA

FAMILY CYSTIDICOLIDAE

Cystidicola farionis Fischer, 1798

Synonym: *Cystidicola canadensis* Skinker, 1930

Includes: Ancyracanthus cystidicola of Wright (1879); Cystidicola stigmatura of

Skinker (1931) and of Ko and Anderson (1960)Sites: coelom, mesenteries, swim bladder Catostomus catostomus (25) Hosts: Coregonus artedii (2, 4, 5, 6, 14, 20, 21, 23, 24, 32, 34, 42, 44, 45) Coregonus clupeaformis (3, 4, 5, 6, 10, 11, 12, 14, 17, 20, 21, 22, 23, 24, 25, 29, 30, 31, 32, 34, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47) Coregonus sp.(19) Oncorhynchus kisutch (23, 24, 32, 34, 44, 45) Oncorhynchus mykiss (13, 26, 31, 33, 37, 40, 44, 45) Prosopium cylindraceum (13, 14, 15, 25, 32, 37, 44, 45) Salmo trutta (32) Salvelinus fontinalis (7, 8, 20, 32) Salvelinus fontinalis X Salvelinus namaycush (22, 28, 32, 44) Salvelinus malma (20, 27, 33, 36, 37, 40) Salvelinus namaycush (1, 7, 8, 9, 10, 11, 16, 18, 20, 23, 25, 26, 27, 32, 36, 39, 40) Thymallus arcticus (25) AB, BC, EXP, MB, NT, Distribution: ON, QC, SK, YT Records: 1) Wright 1879 (ON); 2) Skinker 1930 (ON); 3) Smedley 1933 (AB - Primrose Lake; MB, ON, SK); 4) Hunter & Bangham 1933 (ON); 5) Ekbaum 1936 (MB, ON); 6) Bangham & Hunter 1939 (ON); 7) Richardson 1942 (QC); 8) MacLulich 1943b (ON); 9) Miller & Kennedy 1948 (NT); 10) Rawson 1951 (NT); 11) Stewart-Hay

1953a (MB); 12) Stewart-Hay 1953b

(MB); 13) Bangham & Adams 1954

(BC); 14) Bangham 1955 (ON); 15) Rawson 1959 (SK); 16) Rawson 1961 (SK); 17) Boyes & Anderson 1961 (ON); 18) Dickson 1964 (MB); 19) Margolis 1967 (ON); 20) Ko & Anderson 1969 [AB - Lake Wabamum (C. artedii), BC (S. malma, S. namaycush), NT, (C. clupeaformis, S. namaycush), ON (C. artedii, C. clupeaformis, S. fontinalis), SK (C. clupeaformis, S. namaycush)]; 21) Dechtiar 1972a (ON); 22) Collins & Dechtiar 1974 (ON); 23) Leong & Holmes 1974a (AB - Cold Lake); 24) Leong 1975 (AB - Cold Lake); 25) Arthur et al. 1976 (YT); 26) Mudry & Anderson 1977 [AB - Pyramid Lake (O. mykiss, P. williamsoni, S. namaycush), Patricia Lake (O. mykiss)]; 27) Anonymous 1978 (BC); 28) Dechtiar & Berst 1978 (ON); 29) Pybus and Samuel 1978 (AB - Blue Lake, Cache Lake, Cold Lake, Gregg Lake, Jarvis Lake, Wabamum Lake); 30) Watson & Dick 1979 (MB); 31) Black & Lankester 1980 (EXP, ON); 32) Lankester & Smith 1980 (ON); 33) Anonymous 1981 (BC); 34) Leong & Holmes 1981 (AB - Cold Lake); 35) Samuel 1981 (AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake); 36) Arai & Mudry 1983 (BC); 37) Black 1983a [BC (O. mykiss, P. cylindraceum, S. malma, S. namaycush),

Cystidicola farionis Fischer, 1798

Synonym: Cystidicola canadensis
Skinker, 1930
Includes: Ancyracanthus cystidicola of
Wright (1879); Cystidicola stigmatura of

Skinker (1931) and of Ko and Anderson (1969)Sites: coelom, mesenteries, swim bladder Hosts: Catostomus catostomus (25) Coregonus artedii (2, 4, 5, 6, 14, 20, 21, 23, 24, 32, 34, 42, 44, 45) Coregonus clupeaformis (3, 4, 5, 6, 10, 11, 12, 14, 17, 20, 21, 22, 23, 24, 25, 29, 30, 31, 32, 34, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47) Coregonus sp. (19) Oncorhynchus kisutch (23, 24, 32, 34, 44, 45) Oncorhynchus mykiss (13, 26, 31, 33, 37, 40, 44, 45) Prosopium cylindraceum (13, 14, 15, 25, 32, 37, 44, 45) Prosopium williamsoni (13, 26, 27, 33, 36, 40) Salmo trutta (32) Salvelinus fontinalis (7, 8, 20, 32) Salvelinus fontinalis X Salvelinus namaycush (22, 28, 32, 44) Salvelinus malma (20, 27, 33, 36, 37, 40) Salvelinus namaycush (1, 7, 8, 9, 10, 11, 16, 18, 20, 23, 25, 26, 27, 32, 36, 39, 40) Thymallus arcticus (25) Distribution: AB, BC, EXP, MB, NT, ON, QC, SK, YT Records: 1) Wright 1879 (ON); 2) Skinker 1930 (ON); 3) Smedley 1933

Distribution: AB, BC, EXP, MB, NT, ON, QC, SK, YT
Records: 1) Wright 1879 (ON); 2)
Skinker 1930 (ON); 3) Smedley 1933
(AB - Primrose Lake; MB, ON, SK); 4)
Hunter & Bangham 1933 (ON); 5)
Ekbaum 1936 (MB, ON); 6) Bangham & Hunter 1939 (ON); 7) Richardson 1942
(QC); 8) MacLulich 1943b (ON); 9)
Miller & Kennedy 1948 (NT); 10)
Rawson 1951 (NT); 11) Stewart-Hay
1953a (MB); 12) Stewart-Hay 1953b
(MB); 13) Bangham & Adams 1954

(BC); 14) Bangham 1955 (ON); 15) Rawson 1959 (SK); 16) Rawson 1961 (SK); 17) Boyes & Anderson 1961 (ON); 18) Dickson 1964 (MB); 19) Margolis 1967 (ON); 20) Ko & Anderson 1969 [AB - Lake Wabamum (C. artedi), BC (S. malma, S. namaycush), NT (C. clupeaformis, S. namaycush), ON (C. artedii, C. clupeaformis, S. fontinalis), SK (C. clupeaformis, S. namaycush)]; 21) Dechtiar 1972a (ON); 22) Collins & Dechtiar 1974 (ON); 23) Leong & Holmes 1974a (AB - Cold Lake); 24) Leong 1975 (AB - Cold Lake); 25) Arthur et al. 1976 (YT); 26) Mudry & Anderson 1977 [AB - Pyramid Lake (O. mykiss, P. williamsoni, S. namaycush), Patricia Lake (O. mykiss)]; 27) Anonymous 1978 (BC); 28) Dechtiar & Berst 1978 (ON); 29) Pybus & Samuel 1978 (AB - Blue Lake, Cache Lake, Cold Lake, Gregg Lake, Jarvis Lake, Wabamum Lake); 30) Watson & Dick 1979 (MB); 31) Black & Lankester 1980 (EXP, ON); 32) Lankester & Smith 1980 (ON); 33) Anonymous 1981 (BC); 34) Leong & Holmes 1981 (AB - Cold Lake); 35) Samuel 1981 (AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake); 36) Arai & Mudry 1983 (BC); 37) Black 1983a [BC (O. mykiss, P. cylindraceum, S. malma, S. namaycush), NT (S. namaycush), QC (S. namaycush), YT (S. namaycush)]; 38) McAllister & Mudry 1983 (AB - Pigeon Lake, Wabamum Lake); 39) Stewart & Bernier 1983 (NT); 40) Anonymous 1984 (BC); 41) Samuel 1985 (AB - Blue Lake, Cache Lake, Gregg Lake, Jarvis Lake); 42) Dextrase & Lankester 1987 (ON); 43) Dechtiar & Christie 1988 (ON); 44) Dechtiar et al.

1988 (ON); 45) Dechtiar & Lawrie 1988 (ON); 46) Stock 1988 (AB - Jarvis Lake); 47) Hobbs (undated) (AB - Lesser Slave Lake)

Cystidicola serrata (Wright, 1879) Railliet, 1916 sp. inq.

Synonyms: Ancyracanthus serratus Wright, 1879; Rhabdochona serrata (Wright, 1879)

Site: heart

Host: Coregonus artedii (or Coregonus clupeaformis)

Distribution: ON Record: Wright 1879

Cystidicola stigmatura (Leidy, 1886) Ward and Magath, 1917

Synonym: Cystidicola cristivomeri White, 1941

Includes: *Cystidicola* sp. of White (1940)

Site: swim bladder

Hosts: Coregonus artedii (1, 8, 11, 17) Coregonus clupeaformis (6, 8, 9,

11, 17, 19, 21, 24, 36, 38)

Myoxocephalus thompsoni (27)

Oncorhynchus mykiss (10, 20)

Prosopium cylindraceum (8, 10,

11, 12)

Prosopium williamsoni (10, 20) Salvelinus fontinalis (5, 17, 25) Salvelinus malma (17) Salvelinus fontinalis X Salvelinus

namaycush (19, 21)

Salvelinus namaycush (2, 3, 4, 5, 6, 7, 9, 16, 17, 18, 20, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37)

Distribution: AB, BC, NT, ON, QC, SK 1) Skinker 1930 (ON); 2) Records: White 1941 (ON); 3) White & Cable 1942 (ON); 4) Richardson 1942 (QC); 5) MacLulich 1943b (ON); 6) Miller 1945d (AB - Lake Athabasca, NT); 7) Miller & Kennedy 1948 (NT); 8) Bangham 1951 (ON); 9) Stewart-Hay 1953a (MB); 10) Bangham & Adams 1954 (BC); 11) Bangham 1955 (ON); 12) Rawson 1959 (SK); 13) Boyes & Anderson 1961 (ON): 14) Rawson 1961 (SK); 15) Dickson 1964 (MB); 16) Margolis 1967 (ON); 17) Ko & Anderson 1969 [BC (S. malma, S. namaycush); NT, SK (C. clupeaformis, S. namaycush), ON (C. artedii, C. clupeaformis, S. fontinalis)]; 18) Dechtiar 1972a (ON); 19) Collins & Dechtiar 1974 (ON); 20) Mudry & Anderson 1977 [AB - Pyramid Lake (O. mykiss, P. williamsoni, S. namaycush), Patricia Lake (O. mykiss)]; 21) Dechtiar & Berst 1978 (ON); 22) Smith & Lankester 1979 (ON); 23) Black & Lankester 1980 (ON); (24) Lankester & Smith 1980 (ON); 25) Black 1981b (ON); 26) Black & Anderson 1981b (ON); 27) Black & Lankester 1981a (ON); 28) Stewart & Bernier 1982 (NT); 29) Black 1983b (ON); 30) Black 1983c (NT, ON, QC, SK); 31) Stewart & Bernier 1983 (NT); 32) Black 1984a (ON); 33) Black 1984b (ON); 34) Stewart & Bernier 1984 (NT); 35) Samuel 1985 (AB - Jarvis Lake); 36) Dechtiar & Lawrie 1988 (ON); 37) Hobbs (undated) (AB - Lesser Slave Lake)

Cystidicola sp.

Sites: coelom, swim bladder

Hosts: Coregonus artedii (1, 5, 8, 11) Coregonus clupeaformis (3, 4, 5,

11)

Esox lucius (9, 10) Oncorhynchus mykiss (4, 6) Prosopium coulteri (7) Prosopium williamsoni (5, 11) Salvelinus malma (4)

Salvelinus namaycush (2, 3, 4, 7) AB, BC, MB, NT, ON Distribution: 1) Pritchard 1931 (ON); 2) Records: White 1940 (ON); 3) Stewart-Hay 1953b (MB); 4) Ko & Anderson 1969 (BC, ON); 5) Paetz & Nelson 1970 (AB - not specified); 6) Hoskins et al. 1976 (BC); 7) Mudry & Anderson 1977 (AB -Upper Waterton Lake (S. namaycush); BC (P. Coulteri); 8) Anthony 1978 (ON); 9) Samuel 1981 (AB - Jarvis Lake); 10) Samuel 1985 (AB - Jarvis Lake); 11) Nelson & Paetz 1992 (AB - not specified)

Metabronema sp.

Site: not specified Thymallus arcticus Host: Distribution: BC

Record: Bangham & Adams 1954

Salvelinema salmonicola (Ishii, 1916) Margolis, 1966

Site: swim bladder

Hosts: Oncorhynchus kisutch (1)

Salvelinus malma (2, 3)

Distribution: BC

Records: 1) Margolis 1966; 2) Margolis 1967; 3) Margolis & Kabata 1967

Salvelinema walkeri (Ekbaum, 1935) Margolis, 1967

Synonym: Cystidicola walkeri Ekbaum, 1935

Site: swim bladder

Hosts: Oncorhynchus clarki (8) Oncorhynchus kisutch (1, 2, 3, 4, 5, 6, 7, 8)

Distribution:

Records: 1) Ekbaum 1935; 2) Ekbaum 1936; 3) Margolis 1965; 4) Margolis 1967a; 5) Margolis 1967b; 6) Margolis & Kabata 1967; 7) Godfrey 1968; 8) Margolis & Moravec 1982

Spinitectus acipenseri Choudhury and Dick, 1992

Site: stomach

Acipenser fulvescens Host: Distribution: MB, SK

1) Choudhury et al. 1990; Records: 2) Choudhury & Dick 1991; Swanson et al. 1991; 3) Choudhury & Dick 1992; 4) Choudhury & Dick 1993

Spinitectus carolini Holl, 1928

Site: intestine Hosts: Esox lucius Perca flavescens Distribution: ON

Dechtiar & Lawrie 1988 Record:

**Spinitectus gracilis Ward and Magath, 1917

Site: intestine

Hosts: Acipenser fulvescens (15, 16, 17, 21, 22) Catostomus commersoni (13) Coregonus artedii (6, 10, 11, 13, 20, 24) Coregonus clupeaformis (2, 3, 4, 5, 8, 9, 10, 11, 13) Cottus cognatus (19) Esox lucius (1, 10, 12, 13, 20, 24) Lota lota (4, 5, 6, 16) Moxostoma anisurum (6) Notropis hudsonius (4, 5) Noturus flavus (1) Perca flavescens (3, 4, 5, 6, 7, 8, 9, 13, 14, 15, 20, 22, 23, 24) Percina caprodes (24) Percopsis omiscomaycus (4, 5, 6, 8, 15, 17, 20, 24) Prosopium cylindraceum (3, 17) Salvelinus fontinalis X Salvelinus namaycush (8, 9, 16) Stizostedion vitreum (1, 13, 18) Distribution: MB, ON, SK Records: 1) Bangham & Hunter 1939 (ON); 2) Bangham 1941 (ON); 3) Bangham & Venard 1946 (ON); 4) Bangham 1951 (ON); 5) Bangham 1955 (ON); 6) Dechtiar 1972a (ON); 7) Cannon 1973 (ON); 8) Collins & Dechtiar 1974 (ON); 9) Dechtiar & Berst 1978 (ON); 10) Watson 1977 (MB); 11) Watson & Dick 1979 (MB); 12) Watson & Dick 1980 (MB); 13) Poole 1983 (MB); 14) Poole & Dick 1985 (MB); 15) Dechtiar & Christie 1988 (ON); 16) Dechtiar et al. 1988 (ON); 17) Dechtiar & Lawrie 1988 (ON); 18) Dechtiar & Nepszy 1988 (ON); 19) Dechtiar et al. 1989 (ON); 20) Szalai 1989 (MB); 21) Choudhury et al. 1990 (MB, SK); 22) Choudhury et al. 1991a (MB); 23) Szalai & Dick 1991a (MB); 24) Szalai et al.

1992 (MB)

Spinitectus sp.

Site:

Hosts: Acipenser fulvescens (3, 7, 8, 9)

Perca flavescens (1, 2, 4, 5, 6)

Stizostedion vitreum (2, 3, 4)

Distribution: MB, ON, SK

Records: 1) Bangham 1941 (ON); 2)

Bangham 1951 (ON); 3) Bangham 1955

digestive tract

(ON); 4) Dickson 1964 (MB); 5) Tedla 1969 (ON); 6) Tedla & Fernando 1972 (ON); 7) Anthony 1974 (ON); 8) Anthony 1977 (ON); 9) Choudhury & Dick 1991b (MB)

Sterliadochona ephemeridarum (v. Linstow, 1872) Petter, 1984

Synonyms: Cystidicoloides harwoodi
Chandler, 1931; Metabronema canadense
Skinker, 1931; Metabronema salvelini
(Fujita, 1922) Bayliss, 1935;
Sterliadochona tenuissima (Zeder, 1800)
Spassky and Roytman, 1957;
Cystidicoloides tenuissima (Zeder, 1800)
Rasheed, 1965; Cystidicoloides
ephemeridarum (v. Linstow, 1872)
Moravec, 1981

Site: digestive tract

Hosts: Coregonus artedii (31) Coregonus clupeaformis (13, 24, 29, 30, 31)

Hiodon tergisus (20)
Oncorhynchus clarki (10)
Oncorhynchus kisutch (30, 31)
Oncorhynchus mykiss (9, 10, 17, 3, 24, 30)

21, 23, 24, 30) Prosopium cylindraceum (10) Prosopium williamsoni (10)
Rhinichthys cataractae (10)
Salmo trutta (12, 30)
Salvelinus fontinalis (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18,19, 22, 25, 26, 27, 28, 32, 33, 34)
Salvelinus malma (10, 17, 23)
Salvelinus namaycush (13, 31)
Thymallus arcticus (17, 23)
Distribution: BC, LB, MB, NB, NF, NS

Distribution: BC, LB, MB, NB, NF, NS, ON, QC

1) Skinker 1931 (QC); 2) Records: Bangham & Hunter 1939 (ON); 3) Lyster 1940a (QC); 4) Richardson 1942 (QC); 5) Choquette 1948a (QC); 6) Choquette 1948b (OC); 7) Choquette 1951b (QC); 8) Choquette 1951c (QC); 9) Bangham 1951 (ON); 10) Bangham & Adams 1954 (BC); 11) Choquette 1955 (QC); 12) Sandeman & Pippy 1967 (NF); 13) Hicks & Threlfall 1973 (LB); 14) Hanek & Molnar 1974(QC); 15) Hare & Frantsi 1974 (NS); 16) Frantsi et al. 1975 (NS); 17) Anonymous 1978 (BC); 18) Chinniah & Threlfall 1978 (LB); 19) Thompson & Threlfall 1978 (QC); 20) Glenn 1980 (MB); 21) Anonymous 1981 (BC); 22) Black 1981 (QC); 23) Arai & Mudry 1983 (BC); 24) Anonymous 1984 (BC); 25) Cone & Ryan 1984 (NF); 26) Frimeth 1987a (NB); 27) Frimeth 1987b (NB); 28) Greenwood & Baker 1987 (ON); 29) Dechtiar & Christie 1988 (ON); 30) Dechtiar et al. 1988 (ON); 31) Dechtiar & Lawrie 1988 (ON); 32) Baggs & McT. Cowan 1989 (NF); 33) Marcogliese & Cone 1991b (NF); 34) Dubois et al. 1996 (QC)

Sterliadochona sp.

Site: intestine

Host: Acipenser fulvescens

Distribution: MB

Record: Choudhury & Dick 1993

FAMILY TETRAMERIDAE

*Tetrameres sp.

Site: not specified Host: *Phoxinus eos* Distribution: QC

Record: Dubois et al. 1996

SUPERFAMILY THELAZIODEA

FAMILY RHABDOCHONIDAE

Rhabdochona canadensis Moravec and Arai, 1971

Site: intestine

Hosts: Catostomus commersoni (10, 11) Couesius plumbeus (1, 7)

Esox lucius (1, 3, 4) Hiodon alosoides (10, 11) Margariscus margarita (9)

Moxostoma anisurum (10, 11)

Noturus flavus (1)

Percopsis omiscomaycus (10, 11)

Phoxinus eos (9)

Phoxinus neogaeus (9)

Playtgobio gracilis (1)

Rhinichthys cataractae (1, 6, 7, 8)

Salvelinus malma (2, 5)

Stizostedion vitreum (1)

Distribution: AB, BC, LB, MB, ON, QC

Records: 1) Moravec & Arai 1971
(AB- Milk River); 2) Anonymous 1978
(BC); 3) Chinniah & Threlfall 1978 (LB);
4) Thompson & Threlfall 1978 (QC); 5)
Arai & Mudry 1983 (BC); 6) Dechtiar &
Christie 1988 (ON); 7) Dechtiar et al.
1988 (ON); 8) Dechtiar & Lawrie 1988
(ON); 9) Dechtiar et al. 1989 (ON); 10)
Szalai 1989 (MB); 11) Szalai et al. 1992
(MB)

Rhabdochona cascadilla Wigdor, 1918

Includes: Rhabdochona sp. of Bangham (1941) (partim) and of Bangham and Venard (1946) (partim)

Site: intestine

Hosts: Acipenser fulvescens (7, 8, 9, 18) Carpiodes cyprinus (1) Catostomus catostomus (4, 6, 11,

14)

Catostomus commersoni (4, 10, 11,

14)

Catostomus macrocheilus (6)
Couesius plumbeus (6)
Culaea inconstans (17)
Etheostoma exile (5, 7, 9)
Hiodon tergisus (1)
Lota lota (7)
Margariscus margarita (2, 3, 4)

Moxostoma macrolepidotum (6) Notropis hudsonius (1, 5, 7, 9)

Oncorhynchus clarki (6) Oncorhynchus mykiss (6, 16)

Perca flavescens (10)

Percopsis omiscomaycus (10)

Phoxinius eos (3, 19)

Prosopium williamsoni (6, 16)

Ptychocheilus oregonensis (6, 13,

15, 16)

Rhinichthys cataractae (6)

Richardsonius balteatus (6, 13, 15) Salvelinus fontinalis (12) Thymallus arcticus (6)

Distribution: AB, BC, MB, ON, QC Records: 1) Bangham & Hunter 1939 (ON); 2) Bangham 1941 (ON); 3) Bangham & Venard 1946 (ON); 4) Choquette 1951 (ON, QC); 5) Bangham 1951 (ON); 6) Bangham & Adams 1954 (BC); 7) Bangham 1955 (ON); 8) Dechtiar 1972b (ON); 9) Dechtiar 1972a (ON); 10) Collins & Dechtiar 1974 (ON); 11) Leong 1975 (AB - Cold Lake); 12) Mudry & Anderson 1977 (AB - Babel Creek); 13) Anonymous 1978 (BC); 14) Leong & Holmes 1981 (AB - Cold Lake); 15) Arai & Mudry 1983 (BC); 16) Anonymous 1984 (BC); 17) Dechtiar et al. 1988 (ON); 18) Choudhury & Dick 1993 (MB); 19) Dubois et al. 1996 (QC)

Rhabdochona catostomi Kayton, Kritsky and Tobias, 1979

Site: intestine

Host: Catostomus catostomus

Distribution: AB

Record: Kayton et al. 1979 (AB - Nose

Creek)

Rhabdochona cotti Gastafson, 1949

Site: intestine

Host: Cottus cognatus
Distribution: BC, ON

Records: Bangham & Adams 1954 (BC); Mudry & Anderson 1977 (BC);

Anonymous 1978 (BC); Arai & Mudry 1983 (BC); Dechtiar et al. 1989 (ON)

Rhabdochona decaturensis Gustafson, 1949

intestine Site:

Hosts: Notropis hudsonius (1, 2, 3)

Noturus flavus (1)

Distribution: ON

Records: 1) Dechtiar & Christie 1988; 2)

Dechtiar et al. 1988; 3) Dechtiar &

Lawrie 1988

Rhabdochona kisutchi Margolis, Moravec and MacDonald, 1975

Site: intestine

Hosts: Oncorhynchus kisutch (1)

Oncorhynchus mykiss (2, 3) Prosopium williamsoni (2, 3)

Salvelinus malma (2, 3, 4)

Distribution: BC

1) Margolis et al. 1975; 2) Records:

Anonymous 1978; 3) Arai & Mudry 1983;

4) Anonymous 1984

Rhabdochona milleri Choquette, 1951

Site: intestine

Hosts: Carpiodes cyprinus (8)

Moxostoma macrolepidotum (1, 2,

3, 7)

Oncorhynchus clarki (4)

Oncorhynchus mykiss (4)

Prosopium coulteri (4)

Prosopium williamsoni (5, 6)

Rhinichthys cataractae (5, 6)

Salvelinus fontinalis (4)

Distribution: AB, BC, ON, QC

1) Choquette 1951 (QC); 2) Records:

Moravec & Arai 1971 (ON); 3) Dechtiar

1972b (ON); 4) Mudry & Anderson

1977 (AB - Snowflake Lake (S.

fontinalis), Crypt Lake (O. clarki), BC (O. mykiss, P. coulteri, S. fontinalis, S. malma); 5) Anonymous 1978 (BC); 6) Arai & Mudry 1983 (BC); 7) Dechtiar & Christie 1988 (ON); 8) Dechtiar &

Nepszy 1988 (ON)

Rhabdochona ovifilamenta Weller, 1938

Svnonvm: Rhabdochona laurentiana

Lyster, 1940

Includes: Rhabdochona fortunowi of

Kussat (1969); Rhabdochona sp. of Arai

and Kussat (1967)

intestine Site:

Hosts: Catostomus catostomus (3, 4, 7)

Catostomus commersoni (1, 8, 9,

11, 12)

Catostomus platyrhychus (3, 4, 7,

8)

Perca flavescens (5, 6, 10)

Salvelinus fontinalis (2)

Distribution: AB, BC, QC

Records: 1) Lyster 1940 (QC); 2)

Choquette 1948a (QC); 3) Kussat 1966

(AB - Bow River); 4) Arai & Kussat

1967 (AB - Bow River); 5) Tedla &

Fernando 1969a (ON); 6) Tedla 1969 (ON); 7) Kussat 1969 (AB - Bow

River); 8) Moravec & Arai 1971 (AB -

Highwood River); 9) Dechtiar & Christie

1988 (ON); 10) Dechtiar & Lawrie 1988

(ON); 11) Dechtiar & Nepszy 1988 (ON);

12) Dechtiar et al. 1989 (ON)

Rhabdochona zacconis Yamaguti, 1935

Site: intestine

Host: Catostomus macrocheilus

Distribution: BC Records: Anonymous 1978; Arai & Mudry 1983

Rhabdochona sp.

Site: intestine

Hosts: Catostomus catostomus (7, 8, 11,

15)

Catostomus commersoni (1, 2, 8) Catostomus macrocheilus (11, 15) Catostomus platyrhynchus (7) Coregonus clupeaformis (2) Cottus cognatus (11, 15) Couesius plumbeus (4, 6) Etheostoma exile (17) Notropis atherinoides (19)

Notropis atherinoides (Notropis hudsonius (3)

Oncorhynchus clarki (10)

Oncorhynchus kisutch (5, 14, 16) Oncorhynchus mykiss (11, 13, 15,

16)

Perca flavescens (1, 4, 6, 9, 12) Percopsis omiscomaycus (18) Pimephales promelas (2) Prosopium williamsoni (11, 15, 16,

20)

Ptychocheilus oregonensis (11, 15) Richardsonius balteatus (11, 15) Salvelinus fontinalis (5, 10) Salvelinus fontinalis X Salvelinus

namaycush (12)

Salvelinus malma (11, 14, 15, 16)

Distribution: AB, BC, LB, ON
Records: 1) Bangham 1941 (ON); 2)
Bangham & Venard 1946 (ON); 3)
Stewart-Hay 1951g (MB); 4) Bangham
1951 (ON); 5) Bangham & Adams 1954
(BC); 6) Bangham 1955 (ON); 7) Kussat
1969 (AB - Bow River); 8) Threlfall &
Hanek 1970a (LB); 9) Tedla & Fernando
1972 (ON); 10) Mudry & Anderson

1977 (AB - Utopia Lake (O. clarki), Vista Lake (S. fontinalis); 11) Anonymous 1978 (BC); 12) Dechtiar & Berst 1978 (ON); 13) Pybus & Samuel 1978 (AB - Hardisty Creek); 14) Anonymous 1981 (BC); 15) Arai & Mudry 1983 (BC); 16) Anonymous 1984 (BC); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar & Lawrie 1988 (ON); 19) Byrne 1992 (ON); 20) Nener et al. 1995 (BC)

Rhabdochonidae gen. sp.

Site: intestine

Host: Acipenser fulvescens Distribution: MB, SK

Record: Choudhury et al. 1990

SUPERFAMILY ACUARIOIDEA

FAMILY ACUARIDAE

*Cosmocephalus obvelatus (Creplin, 1825) Seurat, 1919

Site: mesenteries

Hosts: Gasterosteus aculeatus (1, 2)
Notropis hudsonius (1)
Oncorhynchus mykiss (1)
Pungitius pungitius (2, 3)

Distribution: EXP, NS, ON

Records: 1) Wong & Anderson 1982 (EXP, ON); 2) Marcogliese 1992 (NS); 3) Marcogliese 1995 (NS)

*Paracuaria adunca (Creplin, 1846) Anderson and Wong, 1981 Site: mesenteries

Hosts: Gasterosteus aculeatus (1, 2)

Notropis hudsonius (1) Pungitius pungitius (2, 3)

Distribution: NS, ON

1) Anderson & Wong 1982 Records: (ON); 2) Marcogliese 1992 (NS); 3)

Marcogliese 1995 (NS)

*Spiruridae gen. sp.

Sites: coelom, intestinal wall, mesenteries, musculature, ovaries, pyloric caeca, stomach wall, swim bladder

Oncorhynchus mykiss (2) Hosts:

Salvelinus fontinalis (1)

Distribution: BC, QC

1) Choquette 1948a (QC); 2) Records:

Anonymous 1984 (BC)

*Spirurinae gen. sp.

Site: mesenteries

Host: Myoxocephalus thompsoni

Distribution: ON

Record: Black & Lankester 1981a

**Nematoda gen. sp.

Agamonema sp. auct.; Includes:

Agamospirura sp. auct.

Sites: mesenteries, musculature, viscera

Acipenser fulvescens (29) Hosts:

Catostomus catostomus (30) Catostomus commersoni (6, 15,

30)

Coregonus artedii (18, 22, 23) Coregonus clupeaformis (2, 3, 11, 12, 20, 22, 23)

Cottus cognatus (35) Couesius plumbeus (24, 25)

Culaea inconstans (6, 31, 42, 43)

Esox lucius (12, 24, 40)

Etheostoma exile (6)

Hiodon alosoides (30)

Lota lota (12, 17, 22, 28)

Moxostoma anisurum (10)

Notropis hudsonius (6)

Oncorhynchus clarki (7)

Oncorhynchus kisutch (36)

Oncorhynchus mykiss (1, 34, 36,

39)

Perca flavescens (6, 7, 8, 18, 19,

40, 41)

Percina caprodes (6)

Percopsis omiscomaycus (6, 21, 26)

Phoxinus eos (8, 14)

Phoxinus neogaeus (8, 14)

Prosopium cylindraceum (32)

Prosopium williamsoni (34, 36, 39)

Salvelinus confluentus (1)

Salvelinus fontinalis (4, 5, 9, 15, 16,

32, 33)

Salvelinus malma (36, 39)

Salvelinus namaycush (9, 22, 27,

32, 37, 38)

Stizostedion vitreum (6, 9, 10, 18)

Thymallus arcticus (13)

Distribution: AB, BC, LB, MB, NS, NT,

ON, QC, SK

1) Neave & Bajkov 1929 Records:

[AB- Creek at Oldfort Point, Buffalo Praire Lake, Mingo Creek (O. mykiss), Jacques Lake (S. confluentus); 2)

Bajkov 1930 (MB); 3) Hart 1931 (ON);

4) Ricker 1932 (ON); 5) Richardson 1935 (ON); 6) Bangham & Hunter 1939 (ON);

7) Rawson 1939 (AB - Moraine Lake);

8) Bangham 1941 (ON); 9) MacLulich

1943b (ON); 10) McLeod 1943 (MB); 11) Miller 1944b (NT); 12) Miller 1945d

(AB - Lake Athabasca); 13) Miller 1946a (NT); 14) Bangham & Venard 1946 (ON); 15) Fantham & Porter 1948 (QC); 16) Choquette 1948a (QC); 17) Rawson 1951 (NT); 18) Stewart-Hay 1951f (MB); 19) Stewart-Hay 1951g (MB); 20) Wheaton & Hazen 1951 (SK); 21) Bangham 1951 (ON); 22) Stewart-Hay 1953a (MB); 23) Stewart-Hay 1953b (MB); 24) Stewart-Hay 1953c (MB); 25) Bangham & Adams 1954 (BC); 26) Bangham 1955 (ON); 27) Rawson 1961 (SK); 28) Fillion 1961 (AB - Cold Lake, Lac la Nonne, Lac Ste. Anne); 29) Harkness & Dymond 1961 (ON); 30) Reed 1962 (SK); 31) Dechtiar 1972a (ON); 32) Hicks & Threlfall 1973 (LB); 33) Frantsi et al. 1975 (NS); **34) Mudry** & Anderson 1977 [AB - Edith Lake, Moraine Lake (O. mykiss), Lower Waterton Lake (P. williamsoni)]; 35) Pybus & Samuel 1978 (AB - near Hinton); 36) Anonymous 1981 (BC); 37) Stewart & Bernier 1984 (BC); 38) McAllister & Mudry 1983 (AB - Cold Lake); 39) Anonymous 1984 (BC); 40) **Samuel 1985 (AB - Jarvis Lake)**; 41) Dechtiar & Christie 1988 (ON); 42) Dechtiar et al. 1988 (ON); 43) Dechtiar et al. 1989 (ON)

PHYLUM ACANTHOCEPHALA

ORDER EOACANTHOCEPHALA

FAMILY NEOECHINORHYNCHIDAE

Neoechinorhynchus carpiodi Dechtiar, 1968

Site: intestine

Host: Carpiodes cyprinus
Distribution: MB, ON

Records: Dechtiar 1968 (ON); Dechtiar 1972b (ON); Szalai & Dick 1987a (MB); Szalai & Dick 1987b (MB); Dechtiar & Nepszy 1988 (ON); Szalai et al. 1988 (MB); Szalai et al. 1992 (MB)

Neoechinorhynchus crassus Van Cleave, 1919

Sites: intestine, pyloric caeca Hosts: Carpiodes cyprinus (6)

Catostomus catostomus (5, 8, 10,

12, 13, 15)

Catostomus commersoni (1, 2, 3,

5, 7, 10, 11, 12, 14, 15, 16)

Catostomus macrocheilus (4)

Coregonus clupeaformis (9)

Moxostoma anisurum (16)

Moxostoma macrolepidotum (11)

Perca flavescens (16)

Distribution: BC, LB, MB, ON, SK

Records: 1) Bangham & Hunter 1939 (ON); 2) Van Cleave 1949 (SK); 3) Stewart-Hay 1953c (MB); 4) Bangham & Adams 1954 (BC); 5) Bangham 1955 (ON); 6) Dechtiar 1972b (ON); 7) Dechtiar 1972a (ON); 8) Chinniah & Threlfall 1978 (LB); 9) Pybus & Samuel

1978 (AB - Blue Lake, Jarvis Lake); 10) Courtney 1987 (ON); 11) Dechtiar & Christie 1988 (ON); 12) Dechtiar et al. 1988 (ON); 13) Dechtiar & Lawrie 1988 (ON); 14) Dechtiar & Nepszy 1988 (ON);

15) Dechtiar et al. 1989 (ON); 16) Szalai

et al. 1992 (MB)

Neoechinorhynchus cylindratus (Van

Cleave, 1913) Van Cleave, 1919

Synonyms: Neorhynchus cylindratus Van Cleave, 1913; Eorhynchus cylindratus (Van Cleave, 1913) Van Cleave, 1914

Site: intestine

Hosts: Catostomus commersoni (2)
Coregonus clupeaformis (8, 10)
Esox lucius (3, 11)
Lota lota (3, 13)
Perca flavescens (3, 4, 5, 6, 7)
Richardsonius balteatus (9, 10)
Salvelinus fontinalis (2)
Stizostedion canadense (3)
Stizostedion vitreum (1, 3, 4, 12, 13)

Distribution: BC, MB, ON, QC
Records: 1) Bangham & Hunter 1939
(ON); 2) Lyster 1940a (QC); 3) Bangham 1955 (ON); 4) Dickson 1964 (MB); 5)
Tedla & Fernando 1969a (ON); 6) Tedla 1969 (ON); 7) Tedla & Fernando 1972
(ON); 8) Watson 1977 (MB); 9)
Anonymous 1978 (BC); 10) Arai & Mudry 1983 (BC); 11) Anthony 1983
(ON); 12) Dechtiar & Nepszy 1988 (ON); 13) Anthony 1987 (ON)

Neoechinorhynchus distractus Van Cleave, 1949

Site: intestine

Hosts: Catostomus commersoni

Moxostoma anisurum

Distribution: MB

Record: Szalai et al. 1992

Neoechinorhynchus notemigoni Dechtiar, 1967

Site: intestine

Host: Notropis hudsonius

Distribution: ON

Record: Dechtiar & Lawrie 1988

Neoechinorhynchus pungitius Dechtiar, 1971

Site: intestine

Hosts: Culaea inconstans (1, 2, 3)
Perca flavescens (1, 2)
Pungitius pungitius (1, 2)

Distribution: ON

Records: 1) Dechtiar 1971; 2) Dechtiar et al. 1988; 3) Dechtiar et al. 1989

Neoechinorhynchus rutili (O. F. Miller, 1780) Hamann, 1892

Site: intestine

Hosts: Acipenser fulvescens (19)
Catostomus catostomus (3)
Catostomus commersoni (12)
Catostomus macrocheilus (3)
Coregonus artedii (1)
Coregonus clupeaformis (13, 15)
Cottus cognatus (11)
Cottus ricei (20)
Couesius plumbeus (3, 20)
Culaea inconstans (4, 6, 19, 20, 23,

Esox lucius (4, 11)
Gasterosteus aculeatus (2, 3, 5, 9)
Lota lota (3, 4, 11, 13, 15)
Notropis hudsonius (4, 7, 19, 20,

Oncorhynchus clarki (2, 3)
Oncorhynchus kisutch (3)
Oncorhynchus mykiss (3, 4, 13, 15,

17)

Perca flavescens (7, 8 18, 20, 22) Phoxinus neogaeus (20) Prosopium coulteri (15) Prosopium williamsoni (3, 13, 15, 16, 17) Ptychocheilus oregonensis (2, 3, 13, 16, 17) Pungitius pungitius (2, 4, 10, 14, 20) Richardsonius balteatus (3, 13, 15, 16, 17) Salvelinus fontinalis (2, 3, 21) Salvelinus malma (3, 13, 15) Salvelinus namaycush (11, 13, 15, 16, 17) Stizostedion vitreum (19) Thymallus arcticus (11, 13, 15) Distribution: AB, BC, LB, MB, NF, NT, ON, SK, YT Records: 1) Van Cleave & Bangham 1949 (SK); 2) Van Cleave & Lynch 1950 (BC); 3) Bangham & Adams 1954 (BC); 4) Bangham 1955 (ON); 5) Hanek & Threlfall 1970a (LB); 6) Dechtiar 1972a (ON); 7) Dechtiar 1972b (ON); 8) Collins & Dechtiar 1974 (ON); 9) Lester 1975 (BC); 10) Dickinson & Threlfall 1976 (NF); 11) Arthur et al. 1976 (YT); 12) Mudry & Anderson 1977 (AB - Lower Waterton Lake); 13) Anonymous 1978 (BC); 14) Curtis 1982 (NT); 15) Arai & Mudry 1983 (BC); 16) Anonymous 1983 (BC); 17) Anonymous 1984 (BC); 18) Poole & Dick 1985 (MB); 19) Dechtiar & Christie 1988 (ON); 20) Dechtiar et al. 1988 (ON); 21) Dechtiar & Lawrie 1988 (ON); 22) Dechtiar & Nepszy 1988 (ON); 23) Dechtiar et al. 1989 (ON); 24) McLennon & Shires 1995 (ON)

Neoechinorhynchus saginatus Van Cleave

and Bangham, 1949

Site: intestine

Hosts: Catostomus catostomus (1)
Catostomus commersoni (2)
Catostomus macrocheilus (1)

Lota lota (1)

Oncorhynchus kisutch (1)
Oncorhynchus mykiss (1)
Prosopium williamsoni (1)
Ptychocheilus oregonensis (1)

Distribution: BC, ON

Records: 1) Anonymous 1981 (BC); 2)

Mackie et al. 1983 (ON)

Neoechinorhynchus salmonis Ching, 1984

Includes: Neoechinorhynchus saginatus Van Cleave and Bangham, 1949 of Anonymous (1981)

Sites: intestine, pyloric caeca

Hosts: Catostomus catostomus (1, 2, 3, 4)
Catostomus macrocheilus (1, 3, 4)
Coregonus clupeaformis (2, 3)
Lota lota (1, 3, 4)
Oncorhynchus kisutch (1, 3)
Oncorhynchus mykiss (1, 2, 3, 4)
Prosopium williamsoni (4)
Ptychocheilus oregonensis (1, 2, 3,

4)
Savelinus malma (3)
Salvelinus namaycush (2, 3)

Distribution: BC

Records: 1) Anonymous 1981; 2) Anonymous 1983; 3) Anonymous 1984; 4) Ching 1984b

Neoechinorhynchus strigosus Van Cleave, 1949

Site: intestine Hosts: Catostomus catostomus (1, 2) Catostomus commersoni (1, 2, 3, 4, 5, 7, 8) Esox lucius (4, 5) Oncorhynchus kisutch (4, 5) Stizostedion vitreum (6) Distribution: AB, LB, MB, ON 1) Bangham 1955 (ON); 2) Records: Threlfall & Hanek 1970a (LB); 3) Dechtiar 1972a (ON); 4) Leong 1975 (AB - Cold Lake); 5) Leong & Holmes 1981 (AB - Cold Lake); 6) Poole & Dick 1985 (MB); 7) Dechtiar et al. 1988 (ON); 8) Dechtiar et al. 1989 Neoechinorhynchus tenellus (Van Cleave, 1913) Neorhynchus tenellus Van Synonym: Cleave, 1913 Site: intestine Hosts: Acipenser fulvescens (10) Esox lucius (1, 3, 5, 6, 7, 8) Perca flavescens (4) Stizostedion canadense (3) Stizostedion vitreum (2, 3, 4, 5, 7, 8, 9) Distribution: MB, ON Records: 1) Bangham & Hunter 1939 (ON); 2) Dechtiar 1972a (ON); 3) Dechtiar 1972b (ON); 4) Anthony 1978b (ON); 5) Dechtiar & Christie 1988 (ON); 6) Dechtiar et al. 1988 (ON); 7) Dechtiar & Lawrie 1988 (ON); 8) Dechtiar & Nepszy 1988 (ON); 9) Szalai et al. 1992 (MB); 10) Choudhury & Dick 1993 (MB)

Neoechinorhynchus tumidus Van Cleave and Bangham, 1949

Site: intestine Hosts: Coregonus artedii (1, 4, 12) Coregonus clupeaformis (1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13) Cottus cognatus (6) Prosopium cylindraceum (2, 6, 11) Prosopium williamsoni (6) Salvelinus fontinalis X Salvelinus namaycush (7, 11) Thymallus arcticus (6) AB, ON, SK, YT Distribution: Records: 1) Van Cleave & Bangham 1949 (ON); 2) Bangham 1955 (ON); 3) Dechtiar 1972a (ON); 4) Dechtiar 1972b (ON); 5) Collins & Dechtiar 1974 (ON); 6) Arthur et al. 1976 (YT); 7) Dechtiar & Berst 1978 (ON); 8) Samuel 1981 (AB -Blue Lake, Jarvis Lake); 9) Samuel 1985 (AB - Blue Lake, Jarvis Lake); 10) Dechtiar & Christie 1988 (ON); 11) Dechtiar et al. 1988 (ON); 12) Dechtiar & Lawrie 1988 (ON); 13) Stock 1988 (AB -Jarvis Lake)

Neoechinorhynchus venustus Lynch, 1936

Synonym: Neoechinorhynchus cristatus
Lynch, 1936
Site: intestine
Hosts: Catostomus catostomus (1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 17)
Catostomus commersoni (2, 3, 4, 7, 8, 12, 14, 16, 17, 18, 19, 20, 21)
Catostomus macrocheilus (1, 12, 13, 14, 15)
Moxostoma anisurum (21)
Perca flavescens (9)
Ptychocheilus oregonensis (13, 15)
Pungitius pungitius (6, 10)

Distribution: **AB**, BC, LB, MB, ON, QC Records: 1) Bangham & Adams 1954

(BC); 2) Kussat 1966 (AB - Big Hill Creek, Bow River); 3) Arai & Kussat 1967 (AB - Big Hill Creek, Bow River); 4) Kussat 1969 [AB - Big Hill Creek, Bow River (C. commersoni), Bow River (C. catostomus)]; 5) Threlfall & Hanek 1970a (LB); 6) Hanek & Threlfall 1970b (LB); 7) Dechtiar 1972a (ON); 8) Dechtiar 1972b (ON); 9) Tedla & Fernando 1972 (ON); 10) Hanek & Molnar 1974 (QC); 11) Gordon et al. 1978 (QC); 12) Anonymous 1978 (BC); 13) Anonymous 1981 (BC); 14) Arai & Mudry 1983 (BC); 15) Anonymous 1984 (BC); 16) Dechtiar & Christie 1988 (ON); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar & Lawrie 1988 (ON); 19) Dechtiar & Nepszy 1988 (ON); 20) Dechtiar et al. 1989 (ON); 21) Szalai et al. 1992 (MB);

Remarks: Neoechinorhynchus venustus and N. cristatus were placed in synonymy by Petrochenko (1956). The synonymy should have resulted in the retention of N. venustus with N. cristatus as the junior synonym since the description of N. venustus appeared "in print" before that of the latter.

Neoechinorhynchus sp.

Site: intestine

Hosts: Carpiodes cyprinus (6)

Catostomus catostomus (5)

Catostomus commersoni (4, 6, 7, 8

13, 14)

Coregonus artedii (1)

Coregonus clupeaformis (14, 18)

Culaea inconstans (12)

Esox lucius (2)

Gasterosteus aculeatus (16)

Notropis atherinoides (10)
Notropis hudsonius (10)
Oncorhynchus mykiss (17)
Perca flavescens (11)
Percopsis omiscomaycus (9)
Pimephales promelas (21)
Prosopium williamsoni (17)
Richardsonius balteatus (17)
Salvelinus fontinalis (19, 20)
Salvelinus namaycush (17)
Stizostedion canadense (3)
Stizostedion vitreum (8)

Distribution: AB, BC, MB, NB, NT, ON

Records: 1) Pritchard 1931 (ON); 2) Cushing & Bacal 1932 (ON); 3) Bangham & Hunter 1939 (ON); 4) Bangham 1941 (ON); 5) Rawson 1951 (NT); 6) Stewart-Hay 1951b (MB); 7) Stewart-Hay 1952a (MB); 8) Stewart-Hay 1952b (MB); 9) Bangham 1955 (ON); 10) Dechtiar 1972a (ON); 11) Dechtiar 1972b (ON); 12) Kakonge 1972 (ON); 13) Mudry & Arai 1973b (AB - Nose Creek); 14) Pybus & Samuel 1978 (AB - Blue Lake, Jarvis Lake); 15) Chan 1980 (ON); 16) Curtis 1982 (NT); 17) Anonymous 1984 (BC); 18) Samuel 1985 (AB - Jarvis Lake); 19) Frimeth 1987a (NB); 20) Frimeth 1987b (NB); 21) Dechtiar & Christie 1988 (ON)

Octospinifer macilentus Van Cleave, 1918

Includes: Octospinifer sp. of Mudry and Arai (1973b)

Site: intestine

Hosts: Catostomus catostomus (2, 6, 13,

15)

Catostomus commersoni (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,

17,18, 19)

Catostomus macrocheilus (13, 15)

Distribution: AB, BC, ON, QC

Records: 1) Bangham & Hunter 1939

(ON); 2) Bangham 1941 (ON); 3)

Bangham & Venard 1946 (ON); 4) Van

Cleave 1949 (ON); 5) Bangham 1955

(ON); 6) Kussat 1966 (AB - Big Hill

Creek, Bow River); 7) Arai & Kussat 1967 (AB - Big Hill Creek, Bow River);

8) Kussat 1969 (AB - Big Hill Creek,

Bow River): 9) Dechtiar 1972a (ON):

10) Beerman 1972 (AB - Big Hill

Creek, Bow River); 11) Mudry & Arai

1973b (AB - Nose Creek); 12) Beerman

et al. 1974 (AB - Big Hill Creek, Bow

River); 13) Anonymous 1978 (BC); 14)

Chan 1980 (ON); 15) Arai & Mudry 1983

(BC); 16) Dechtiar & Christie 1988 (ON);

17) Dechtiar et al. 1988 (ON); 18)

Dechtiar & Nepszy 1988 (ON); 19)

Dubois et al. 1996 (QC)

FAMILY TENUISENTIDAE

Tanaorhamphus sp.

Includes: Tanorhynchus sp. of Stewart-

Hay (1952b)

Site: intestine

Host: Catostomus commersoni

Distribution: MB

Record: Stewart-Hay 1952b

ORDER PALAEACANTHOCEPHALA

SUPERFAMILY ECHINORHYNCHOIDEA

FAMILY ECHINORHYNCHIDAE

Acanthocephalus dirus (Van Cleave, 1931) Van Cleave and Townsend, 1936

Synonym: Acanthocephalus jacksoni

Bullock, 1962 Site: intestine

Hosts: Catostomus catostomus (5)

Catostomus commersoni (1, 6)

Coregonus clupeaformis (1, 3)

Cottus cognatus (1, 3)

Cottus ricei (4)

Culaea inconstans (4)

Esox lucius (5, 6)

Lota lota (4, 7)

Oncorhynchus kisutch (3)

Oncorhynchus mykiss (5)

Perca flavescens (1, 3, 5)

Percopsis omiscomaycus (5)

Prosopium cylindraceum (7)

Pungitius pungitius (4)

Salmo trutta (4)

Salvelinus fontinalis (3, 7)

Salvelinus fontinalis X Salvelinus

namaycush (1, 2, 4)

Salvelinus namaycush (7)

Distribution: ON

Records: 1) Collins & Dechtiar 1974; 2)

Dechtiar & Berst 1978; 3) Dechtiar & Christie 1988; 4) Dechtiar et al. 1988; 5)

Dechtiar & Lawrie 1988; 6) Dechtiar &

Nepszy 1988; 7) Dechtiar et al. 1989

Acanthocephalus sp.

Site: intestine

Hosts: Coregonus clupeaformis

Esox lucius

Stizostedion vitreum

Distribution: MB

Record: McTavish 1952

Echinorhynchus gadi Zoega in O. F. Muller, 1776

Synonym: Echinorhynchus vancleavei

Golvan, 1969

Site: intestine

Hosts: Coregonus clupeaformis (3)

Salvelinus fontinalis (1)

Salvelinus namaycush (2, 3)

Distribution: NT, QC

Records: 1) Black 1981 (QC); 2)

Stewart & Bernier 1982 (NT); 3) Shostak

et al. 1986 (NT)

Echinorhynchus lateralis Leidy, 1851

Synonyms: Acanthocephalus lateralis (Leidy, 1851); Metechinorhynchus lateralis (Leidy, 1851) Golvan, 1969

Site: intestine

Hosts: Acipenser fulvescens (21)
Catostomus catostomus (3)
Coregonus artedii (21)

Coregonus clupeaformis (4, 5, 10,

11)

Esox lucius (6, 15)

Gasterosteus aculeatus (7, 17)

Oncorhynchus kisutch (21)

Oncorhynchus mykiss (4, 21)

Perca flavescens (3)

Prosopium cylindraceum (10, 21)

Pungitius pungitius (8)

Salmo trutta (4, 5, 9)

Salvelinus fontinalis (1, 2, 3, 4, 5,

9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24)

Salvelinus namaycush (10, 21)

Distribution: LB, NB, NF, NS, ON, OC Records: 1) Richardson 1936 (QC); 2) Choquette 1948a (QC); 3) Fantham & Porter 1948 (QC); 4) Sandeman & Pippy 1967 (NF); 5) Threlfall & Hanek 1970c (NF); 6) Threlfall & Hanek 1970b (LB): 7) Hanek & Threlfall 1970a (LB, NF); 8) Hanek & Threlfall 1970b (NF); 9) Hanek & Threlfall 1970d (NF); 10) Dechtiar 1972a (ON); 11) Hicks & Threlfall 1973 (LB); 12) Hare & Frantsi 1974 (NB); 13) Frantsi et al. 1975 (NS); 14) Thompson & Threlfall 1978 (QC); 15) Chinniah & Threlfall 1978 (LB); 16) Black 1981a (QC); 17) Cone & Ryan 1984 (NF); 18) Frimeth 1987a (NB); 19) Frimeth 1987b (NB); 20) Dechtiar et al. 1988 (ON); 21) Dechtiar & Lawrie 1988 (ON); 22) Baggs & McT. Cowan 1989 (NF); 23) Marcogliese & Cone 1991b (NF); 24) Dubois et al. 1996 (QC)

Echinorhynchus leidyi Van Cleave, 1924

Synonyms: Echinorhynchus salvelini Linkins in Ward and Whipple, 1918; Metechinorhynchus leidyi (Van Cleave, 1924) Golvan, 1969

Site: intestine

Hosts: Acipenser fulvescens (15, 16)
Catostomus catostomus (8)
Catostomus commersoni (8)
Coregonus artedii (10, 12)
Coregonus clupeaformis (10, 11,

12)

Esox lucius (10, 12, 13) Lota lota (4, 8, 12) Oncorhynchus mykiss (8, 11)

Salvelinus malma (1)

Salvelinus namaycush (1, 2, 3, 5, 6,

7, 8, 9, 11, 12, 14)

QC, SK
Records: 1) Van Cleave 1920 (ON); 2)
Cooper 1921 (ON); 3) Richardson 1942
(QC); 4) Miller 1944 b (NT); 5) Miller
1945e (AB - Lake Athabasca); 6) Miller
1946b (NT); 7) Miller & Kennedy 1948
(NT); 8) Bangham 1955 (ON); 9) Rawson
1959 (SK); 10) Shostak & Dick 1982
(MB); 11) Prychitko & Nero 1983 (EXP,
ON); 12) Shostak et al. 1986 (MB, NT);
13) Shostak & Dick 1986 (MB); 14)
Dechtiar et al. 1988 (ON); 15) Choudhury
et al. 1990 (MB); 16) Choudhury & Dick

AB, EXP, MB, NT, ON,

Echinorhynchus salmonis O. F. Müller, 1784

Synonyms: Metechinorhynchus salmonis (O. F. Müller, 1784) Petrochenko, 1956; Echinorhynchus coregoni Linkins in Van Cleave, 1919

Site: intestine

1993 (MB)

Distribution:

Hosts: Acipenser fulvescens (10, 34, 35, 36)

Catostomus catostomus (7, 10, 20, 22, 28, 33, 35)

Catostomus commersoni (10, 17,

20, 21, 23, 28, 33)

Coregonus artedii (6, 10, 15, 18,

19, 20, 21, 22, 23, 24, 26, 28, 29, 32, 34, 35, 36)

Coregonus clupeaformis (3, 7, 8, 9,

10, 15, 16, 17, 18, 19, 20, 21, 22, 23, 26,

28, 29, 30, 34, 35, 36, 39)

Couesius plumbeus (10, 35)

Esox lucius (10, 15, 16, 19, 20, 21,

22, 25, 27, 28, 29, 34, 35, 37)

Gasterosteus aculeatus (34, 38) Lota lota (3, 9, 10, 11, 15, 19, 20, 21, 28, 35, 36)

Myoxocephalus thompsoni (10)

Notropis hudsonius (10)

Oncorhynchus kisutch (19, 20, 21, 24, 28, 34, 35, 36)

Oncorhynchus mykiss (10, 34, 35)

Perca flavescens (10, 12, 13, 14, 17, 22, 24, 25, 27)

Percopsis omiscomaycus (10, 17, 34, 36)

34, 36)
Prosopium cylindraceum (10, 35,

Prosopium cylinaraceum (10, 35)

36) Pungitius pungitius (18, 19, 20, 21,

28)
Salmo trutta (35)
Salvelinus fontinalis (33, 34, 38)
Salvelinus fontinalis X Salvelinus

namaycush (17, 23, 35)
Salvelinus malma (1)
Salvelinus namaycush (1, 2, 5, 7, 10, 15, 18, 19, 20, 21, 25, 28, 31, 32, 34, 35, 36)

Stizostedion canadense (10, 15) Stizostedion vitreum (15, 16, 20, 21, 28, 34, 36)

Thymallus arcticus (4)

Distribution: AB, BC, CA, MB, NT, ON 1) Van Cleave 1920 (NT); 2) Records: Cooper 1921 (NT); 3) Bangham & Hunter 1939 (ON); 4) Miller 1946b (NT); 5) Miller & Kennedy 1948 (NT); 6) Rawson 1951 (NT); 7) Stewart-Hay 1953a (MB); 8) Stewart-Hay 1953b (MB); 9) Bangham & Adams 1954 (BC); 10) Bangham 1955 (ON); 11) Fillion 1961 (AB - Cold Lake); 12) Tedla & Fernando 1969d (ON); 13) Tedla & Fernando 1970b (ON); 14) Tedla & Fernando 1972 (ON); 15) Dechtiar 1972a (ON); 16) Dechtiar 1972b (ON); 17) Collins & Dechtiar 1974 (ON); 18) Leong & Holmes 1974a (AB - Cold Lake); 19)

Leong & Holmes 1974b (AB - Cold Lake); 20) Leong 1975 (AB - Cold Lake); 21) Holmes et al. 1977 (AB -Cold Lake); 22) Watson 1977 (MB); 23) Dechtiar & Berst 1978 (ON); 24) Lester & Wright 1978 (ON); 25) Pybus & Samuel 1978 (AB - Angling Lake, Cold Lake); 26) Watson & Dick 1979 (MB); 27) Watson & Dick 1980 (MB); 28) Leong & Holmes 1981 (AB - Cold Lake); 29) Shostak & Dick 1982 (MB); 30) McCart et al. 1982 (AB -Athabasca River, Lake Athabasca); 31) Stewart & Bernier 1983 (NT); 32) Shostak et al. 1986 (MB, NT); 33) Courtney 1987 (ON); 34) Dechtiar & Christie 1988 (ON); 35) Dechtiar et al. 1988 (ON); 36) Dechtiar & Lawrie 1988 (ON); 37) Dechtiar & Nepszy 1988 (ON); 38) Curtis 1988 (CA); 39) Hobbs (undated) (AB - Lesser Slave Lake)

Echinorhynchus sp.

Distribution: LB, NT, ON

Records: 1) Hart 1931 (ON); 2)

Bangham & Hunter 1939 (ON); 3) Miller
1945e (NT); 4) Miller 1946a (NT); 5)

Munroe 1949 (LB); 6) Stewart & Bernier
1983 (NT); 7) Stewart & Bernier 1984

(NT); 8) Anthony 1987 (ON)

FAMILY LEPTORHYNCHOIDIDAE

**Leptorhynchoides thecatus (Linton, 1891) Kostylev, 1924

Synonym: Echinorhynchus thecatus Linton, 1891

Sites: intestine, mesenteries

Hosts: Acipenser fulvescens (18, 19)
Catostomus catostomus (6, 16)
Catostomus commersoni (9, 10,

Coregonus clupeaformis (2, 4)
Culaea inconstans (9, 10)
Esox lucius (5, 6, 9, 10, 14, 15)
Etheostoma exile (1, 9, 14)
Lota lota (2, 4, 11, 16)
Moxostoma anisurum (9, 10)
Notropis hudsonius (6)
Noturus flavus (1, 16)
Perca flavescens (1, 2, 4, 6, 7, 8,

9, 10, 11, 12, 13, 15, 16, 17)
Percina caprodes (1, 9, 10)
Percopsis omiscomaycus (1, 9)
Pungitius pungitius (9, 10)
Salvelinus fontinalis (4)
Salvelinus namaycush (3, 4)
Stizostedion vitreum (1, 6, 15, 17)

Distribution: MB, ON, QC
Records: 1) Bangham & Hunter 1939
(ON); 2) Bangham 1941 (ON); 3)
MacLulich 1943b (ON); 4) Bangham &
Venard 1946 (ON); 5) Worley &
Bangham 1952 (QC); 6) Bangham 1955
(ON); 7) Tedla & Fernando 1969a (ON);
8) Tedla 1969 (ON); 9) Dechtiar 1972a
(ON); 10) Dechtiar 1972b (ON); 11)
Tedla & Fernando 1972 (ON); 12)

Cannon 1973 (ON); 13) Collins & Dechtiar 1974 (ON); 14) Anthony 1983 (ON); 15) Dechtiar & Christie 1988 (ON); 16) Dechtiar et al. 1988 (ON); 17) Dechtiar & Nepszy 1988 (ON); 18) Choudhury et al. 1990 (MB); 19) Choudhury & Dick 1993 (MB)

FAMILY POMPHORHYNCHIDAE

**Pomphorhynchus bulbocolli Linkins in Van Cleave, 1919

Sites: intestine, mesenteries Acipenser fulvescens (40, 42, 43, Hosts: 44, 45, 48) Carpiodes cyprinus (13, 14, 32, 34, 36, 45) Catostomus catostomus (8, 35, 39) Catostomus commersoni (1, 2, 3, 4, 5, 6, 7, 8, 13, 15, 17, 19, 20, 23, 25, 26, 27, 31, 33, 34, 35, 36, 37, 45, 48) Catostomus macrocheilus (8, 19, 24, 27, 29) Coregonus artedii (16, 17, 18, 23) Coregonus clupeaformis (16, 17, 18, 21, 23, 25, 26, 27, 34) Esox lucius (9, 18, 45) Hiodon tergisus (14, 22)

Esox lucius (9, 18, 45)
Hiodon tergisus (14, 22)
Lota lota (8, 9, 10, 13, 35)
Moxostoma anisurum (14, 45)
Moxostoma macrolepidotum (5,

14)
Notropis hudsonius (9, 35, 45)
Oncorhynchus clarki (8)
Oncorhynchus kisutch (8, 16, 23, 25, 27)

Oncorhynchus mykiss (8, 19, 24, 26, 29, 34, 37)
Perca flavescens (9, 11, 12, 20,

30, 46)

Percina caprodes (9, 13, 34, 35) Percopsis omiscomaycus (9, 15,

34, 35)

Phoxinus eos (2, 48)
Prosopium cylindraceum (34, 35)
Prosopium williamsoni (8, 19, 24, 28, 29)

27, 28, 29)

Ptychocheilus oregonensis (8, 19, 24, 27, 28, 29)

Pungitius pungitius (17, 23) Rhinichthys cataractae (35, 44) Richardsonius balteatus (8) Salvelinus fontinalis X Salvelinus namaycush (15, 20, 34)

Salvelinus namaycush (16, 17, 23) AB, BC, MB, ON, QC, SK Distribution: Records: 1) Bangham & Hunter 1939 (ON); 2) Bangham 1941 (ON); 3) Richardson 1942 (QC); 4) Bangham & Venard 1946 (ON); 5) Stewart-Hay 1951b (MB); 6) Stewart-Hay 1952b (MB); 7) Stewart-Hay 1951g (MB); 8) Bangham & Adams 1954 (BC); 9) Bangham 1955 (ON); 10) Fillion 1961 (AB - Lac Ste. Anne); 11) Tedla 1969 (ON); 12) Tedla & Fernando 1972 (ON); 13) Dechtiar 1972a (ON); 14) Dechtiar 1972b (ON); 15) Collins & Dechtiar 1974 (ON); 16) Leong & Holmes 1974a (AB -Cold Lake); 17) Leong 1975 (AB - Cold Lake); 18) Watson 1977 (MB); 19) Anonymous 1978 (BC); 20) Dechtiar & Berst 1978 (ON); 21) Pybus & Samuel 1978 (AB - Wabamum Lake); 22) Glenn 1980 (MB); 23) Leong & Holmes 1981 (AB - Cold Lake); 24) Anonymous 1981 (BC); 25) Drouin 1982 [AB - McGregor Lake, Travers Reservoir (C. commersoni), Travers Reservoir (C. clupeaformis)]; 26) McAllister & Mudry 1983 (AB - Ghost Lake, Tyrell

Lake); 27) Arai & Mudry 1983 (BC); 28) Anonymous 1983 (BC); 29) Anonymous 1984 (BC); 30) Poole & Dick 1985 (MB); 31) Courtney et al. 1987 (BC); 32) Szalai & Dick 1987a (MB); 33) Dechtiar & Christie 1988 (ON); 34) Dechtiar et al. 1988 (ON); 35) Dechtiar & Lawrie 1988 (ON); 36) Dechtiar & Nepszy 1988 (ON); 37) Szalai & Dick 1988 (MB); 38) Amedjo & Holmes (AB - Tyrell Lake); 39) Dechtiar et al. 1989 (ON); 40) Choudhury et al. 1990 (SK); 41) Szalai & Dick 1990 (SK); 42) Choudhury & Dick 1991 (MB, SK); 43) Swanson et al. 1991 (MB); 44) Szalai et al. 1992 (MB); 45) Choudhury & Dick 1993 (MB, SK); 46) Zelmer 1994 (AB - Burntstick Lake, Coal Lake, Fincastle Lake, Joker Lake, Pigeon Lake, Pine Lake, Sylvan Lake): 47) Choudhury & Dick 1994 (MB); 48) Dubois et al. 1996 (QC)

Pomphorhynchus sp.

Site: intestine

Hosts: Catostomus commersoni (1, 4)

Coregonus clupeaformis (2, 3) Notropis hudsonius (3)

Stizostedion vitreum (1)
Distribution: MB

Records: 1) Stewart-Hay 1951b; 2) Stewart-Hay 1951f; 3) Stewart-Hay 1951g; 4) Stewart-Hay 1952b

FAMILY RHADINORHYNCHIDAE

Rhadinorhynchus trachuri Harada, 1935

Synonym: Nipporhynchus trachuri

(Harada, 1935) Van Cleave and Lincicome, 1940

Site: intestine

Host: Oncorhynchus kisutch

Distribution: BC

Record: Anonymous 1981; Anonymous

1984

**Acanthocephala gen. sp.

Sites: coelom, intestine, mesenteries

Hosts: Acipenser fulvescens (8, 11)
Catostomus commersoni (5)

Coregonus clupeaformis (6, 9, 12)

Esox lucius (6, 7) Lota lota (6)

Oncorhynchus mykiss (4)

Perca flavescens (3)

Salvelinus fontinalis (1, 2, 4)

Salvelinus namaycush (9, 10) Stizostedion canadense (3)

Stizostedion vitreum (3)

Distribution: **AB**, MB, NF, NT, ON, QC, SK

Records: 1) Ricker 1932 (ON); 2)

Richardson 1935 (QC); 3) Bangham & Hunter 1939 (ON); 4) Frost 1940 (NF);

5) Stewart-Hay 1952b (MB); 6)

McTavish 1952 (MB); 7) McTavish 1953

(MB); 8) Harkness & Dymond 1961

(ON); 9) McAllister & Mudry 1983

[AB- Cold Lake (S. namaycush), Buck Lake (C. clupeaformis)]; 10) Stewart &

Bernier 1983 (NT); 11) Choudhury &

Dick 1991 (MB, SK)

PHYLUM ANNELIDA

CLASS HIRUDINEA

ORDER GNATHBDELLIDA

FAMILY HIRUDINIDAE

Macrobdella decora (Say, 1824) Verrill, 1872

Site: body surface

Hosts: Acipenser fulvescens (2)

Stizostedion vitreum (1)

Distribution: ON, SK

Records: 1) Moore 1922 (SK); 2) Moore

1924 (ON)

Mollibdella grandis (Verrill, 1874) Richardson, 1969

Site: body surface
Host: Esox lucius
Distribution: ON
Record: Moore 1922

Percymoorensis marmorata (Say, 1824) Richardson, 1969

Synonym: Haemopsis marmorata Say, 1824

Site: body surface

Host: Stizostedion vitreum

Distribution: SK

Records: Moore 1922; Madill 1988

ORDER RHYNCHOBDELLIDA

FAMILY GLOSSIPHONIDAE

Actinobdella inequiannulata Moore, 1901

Synonym: Actinobdella triannulata

Moore, 1924

Site: gill chamber

Hosts: Catostomus catostomus (3, 5, 6, 10,

14, 15)

Catostomus commersoni (1, 2, 4, 6,

7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17) Catostomus macrocheilus (3, 5)

Distribution: BC, ON, SK

Records: 1) Bangham 1941 (ON); 2)

Bangham & Venard 1946 (ON); 3)

Bangham & Adams 1954 (BC); 4) Meyer & Moore 1954 (ON); 5) Bangham 1955

(ON); 6) Reed 1962 (SK); 7) Dechtiar 1972b (ON); 8) Molnar et al. 1974 (ON);

9) Lester & Daniels 1976 (ON); 10) Daniels & Freeman 1976 (ON); 11)

Bower & Woo 1977 (ON); 12) Chan

1980 (ON); 13) Dechtiar & Christie 1988 (ON); 14) Dechtiar et al. 1988 (ON); 15)

Dechtiar & Lawrie 1988 (ON); 16) Jones & Woo 1992a (ON); 17) Dubois et al.

1996 (QC)

Actinobdella sp.

Site: gill chamber

Hosts: Catostomus catostomus (2)

Perca flavescens (1)

Distribution: ON, QC

Records: 1) Worley & Bangham 1952 (QC); 2) Dechtiar et al. 1989 (ON)

Desserobdella phalera (Graf, 1899) Jones and Woo, 1990

Synonym: Clepsine phalera Graf, 1899

Site: body surface

Hosts: Esox lucius

Gasterosteus aculeatus Oncorhynchus mykiss Perca flavescens

Stizostedion vitreum

Distribution: ON

Jones & Woo 1990 Record:

Placobdella montifera Moore, 1906

body surface Site:

Hosts: Acipenser fulvescens (4)

Catostomus commersoni (2, 3)

Esox lucius (2, 3)

Moxostoma macrolepidotum (2, 3)

Perca flavescens (1, 2, 3) Stizostedion vitreum (2, 3)

Distribution: **MB**

1) Szalai & Dick 1991a; 2) Records: Szalai & Dick 1991b; 3) Szalai et al. 1992; 4) Choudhury & Dick 1993

Placobdella parasitica (Say, 1824) Moore, 1901

Site: body surface Host: Perca flavescens Distribution: ON Record: Rverson 1915

Placobdella sp.

Site: body surface

Acipenser fulvescens Host:

Distribution: MB

Record: Choudhury et al. 1990

Glossiphonidae gen. sp.

Site: body surface

Host: Acipenser fulvescens

Distribution: MB

Record: Choudhury & Dick 1993

FAMILY PISCICOLIDAE

Cystobranchus mammilatus (Malm, 1863)

Johansson, 1896

Site: operculum Lota lota Host: Distribution: NT

Record: Meyer & Roberts 1977

Cystobranchus meyeri Hayunga and Grey.

1976

Site: body surface

Host: Catostomus commersoni

Distribution: ON Record: Klemm 1982

Cystobranchus verrilli Meyer, 1940

Site: gill chamber

Hosts: Lota lota (1, 2, 3, 4) Moxostoma anisurum (6)

Moxostoma macrolepidotum (5)

Distribution: AB, MB, ON

Records: 1) Meyer & Moore 1954 (ON); 2) Leong 1975 (AB - Cold Lake); 3)

Leong & Holmes 1981 (AB - Cold Lake); 4) Dechtiar et al. 1989 (ON); 5)

Szalai & Dick 1991b (MB); 6) Szalai et

al. 1992 (MB)

Myzobdella lugubris Leidy, 1851

Synonyms: Illinobdella alba Meyer, 1940; Illinobdella moorei Meyer, 1940; Myzobdella moorei (Meyer, 1940) Meyer and Moore, 1954

Includes: Myzobdella alba Moore, 1940 of Dechtiar and Christie (1988)

Site: body surface

Hosts: Catostomus catostomus (3)
Catostomus commersoni (12)
Lota lota (8)
Moxostoma macrolepidotum (12)
Notropis hudsonius (12)
Perca flavescens (1, 2, 10, 11, 12)
Percina caprodes (12)
Percopsis omiscomaycus (12)
Stizostedion canadense (6)

Stizostedion vitreum (4, 5, 6, 9, 12)
Distribution: AB, MB, ON, SK

Records: 1) Meyer & Moore 1954 (ON);
2) Bangham 1955 (ON); 3) Reed 1962
(SK); 4) Moore 1964 (AB - Bow River);
5) Dechtiar 1972b (ON); 6) Dechtiar
1972c (ON); 7) Appy & Cone 1982
(ON); 8) Dechtiar & Lawrie 1988 (ON);
9) Dechtiar & Nepszy 1988 (ON); 10)
Dechtiar et al. 1988 (ON); 11) Szalai &
Dick 1991a (MB); 12) Szalai & Dick
1991b (MB)

Myzobdella sp.

Includes: Illinobdella sp.
Site: body surface
Hosts: Catostomus commersoni (12)
Esox lucius (7, 11)
Etheostoma exile (5)
Oncorhynchus mykiss (4)

Perca flavescens (1, 2, 3, 6, 7, 9,

10)

Ptychocheilus oregonensis (4)
Distribution: BC, ON, QC
Records: 1) Bangham 1941 (ON); 2)
Bangham & Venard 1946 (ON); 3)
Worley & Bangham 1952 (QC); 4)
Bangham & Adams 1954 (BC); 5)
Bangham 1955 (ON); 6) Todle 1960

Percopsis omiscomaycus (8)

Bangham 1955 (ON); 6) Tedla 1969 (ON); 7) Dechtiar 1972a (ON); 8) Dechtiar 1972b (ON); 9) Tedla & Fernando 1972 (ON); 10) Chan 1980 (ON); 11) Dechtiar et al. 1988 (ON); 12) Dechtiar & Nepszy 1988 (ON)

Piscicola geometra (Linnaeus 1758) de Blainville, 1818

Site: body surface

Host: Catostomus catostomus (2)
Catostomus commersoni (2)
Coregomus artedii (3)
Coregomus clupeaformis (3)
Esox lucius (2)
Perca flavescens (3)
Salvelinus namaycush (3)
Stizostedion vitreum (1, 2)

Distribution: QC, SK

Records: 1) Rawson 1957a (SK); 2) Rawson 1957b (SK); 3) Madill 1988 (QC, SK)

Piscicola milneri (Verrill, 1874) Ryerson, 1915

Site: body surface

Hosts: Catostomus commersoni (7) Coregonus artedii (9, 10) Coregonus clupeaformis (2, 3, 8, 9,

10) Esox lucius (8, 9, 11)

Lota lota (8)
Oncorhynchus mykiss (14)
Prosopium cylindraceum (8, 12)
Salvelinus fontinalis (13, 14)
Salvelinus namaycush (1, 4, 5, 6, 8)
Distribution: AB, MB, NT, ON, QC,

Records: 1) Ryerson 1915 (ON); 2)
Moore 1924 (ON); 3) Meyer 1946 (ON);
4) Miller & Kennedy 1948 (NT); 5)
Moore & Meyer 1951 (NT); 6) Meyer &
Moore 1954 (QC); 7) Moore 1964 (ABCold Lake, Lower Waterton Lake,
Upper Waterton Lake, Wabamum
Lake); 8) Arthur et al. 1976 (YT); 9)
Watson 1977 (MB); 10) Watson & Dick
1979 (MB); 11) Watson & Dick 1980
(MB); 12) Dechtiar & Lawrie 1988
(ON); 13) Madill 1988 (ON)

Piscicola punctata (Verrill, 1871) Moore, 1912

Sites: body surface, gills

Hosts: Acipenser fulvescens (13)

Coregonus artedii (2)

Esox lucius (8)

Lota lota (5, 9)

Perca flavescens (2, 5)

Percina caprodes (5, 9)

Percopsis omiscomaycus (12)

Ptychocheilus oregonensis (6)

Salvelinus fontinalis (3, 10, 11,

12, 14)

YT

Stizostedion canadense (1)
Stizostedion vitreum (4, 5, 7, 8)
ion: AB, BC, NB, ON, SK

Distribution: AB, BC, NB, ON, SK Records: 1) Moore 1924 (ON); 2) Rawson 1930 (ON); 3) Ricker 1932 (ON); 4) Moore 1936 (ON); 5) Bangham & Hunter 1939 (ON); 6) Clemens et al. 1939 (BC); 7) Rawson 1957a (SK); 8) Oliver1960 (SK); 9) Dechtiar 1972a (ON); 10) Frimeth 1987a (NB); 11) Frimeth 1987b (NB); 12) Dechtiar et al. 1988 (ON); 13) Dechtiar & Lawrie 1988 (ON); 14) Madill 1988 (AB - Tay River)

Piscicola salmositica Meyer, 1946

Sites: body surface, gill chamber
Hosts: Catostomus macrocheilus (2, 3)
Oncorhynchus kisutch (1)

Distribution: BC

Records: 1) Becker & Katz 1965a; 2) Anonymous 1981; 3) Anonymous 1984

Piscicola sp.

Site: body surface

Hosts: Acipenser fulvescens (8)

Catostomus macrocheilus (6)

Margariscus margarita (7)

Perca flavescens (1, 2, 3, 5)

Prosopium williamsoni (6)

Stizostedion vitreum (4)

Distribution: BC, MB, ON

Records: 1) Tedla 1969 (ON); 2) Tedla & Fernando 1969a (ON); 3) Tedla & Fernando 1972 (ON); 4) Anthony 1978b (ON); 5) Chan 1980 (ON); 6) Anonymous 1981 (BC); 7) Dechtiar et al. 1989 (ON); 8) Choudhury et al. 1990 (MB)

Piscicolaria reducta Meyer, 1940

Site: body surface
Host: Percina caprodes
Distribution: ON

Record: Appy & Cone 1982

Hirudinea gen. sp.

Sites: body surface, gill chamber, gills

Hosts: Acipenser fulvescens (4)

Catostomus macrocheilus (3)

Lota lota (1)

Prosopium williamsoni (3) Salvelinus fontinalis (2)

Distribution: BC, MB, NF, SK

Records: 1) McTavish 1952 (MB); 2) Sandeman & Pippy 1967 (NF); 3)

Anonymous 1978 (BC); 4) Choudhury &

Dick 1991 (MB, SK)

PHYLUM MOLLUSCA

CLASS BIVALVIA

ORDER EULAMELLIBRANCHIA

SUPERFAMILY UNIONACEA

FAMILY UNIONIDAE

*Anodonta cataracta Say, 1817

Includes: Anodonta cataracta cataracta Say, 1817; Anodonta cataracta fragilis

Lamarck, 1819

Sites: fins, gills, opercula

Hosts: Catostomus commersoni (1)

Gasterosteus aculeatus (1, 2)

Salvelinus fontinalis (2)

Distribution: NF, NS

Records: 1) Wiles 1975 (NS); 2)

Threlfall 1986 (NF)

*Anodonta grandis simpsonia Lea, 1861

Sites: body surface, fins, gills

Host: Perca flavescens

Distribution: AB

Records: Jansen 1991 (AB - Narrow Lake); Jansen & Hanson 1991 (AB -Narrow Lake); Nelson & Paetz 1992

(AB - not specified)

*Anodonta implicata Say, 1829

Site: gills

Hosts: Catostomus commersoni

Gasterosteus aculeatus

Distribution: NS Record: Wiles 1975

*Anodonta sp.

Site: gills

Hosts: Gasterosteus aculeatus (4)

Perca flavescens (1,2,3)
Ptychocheilus oregonensis (5)

Pungitius pungitius (4)

Distribution: BC, NS, ON

Records: 1) Tedla & Fernando 1969d (ON); 2) Tedla 1969 (ON); 3) Tedla & Fernando 1972 (ON); 4) Wiles 1975

(NS); 5) Anonymous 1984 (BC)

*Anodontoides ferrussacianus Lea, 1834

Sites: fins, gills

Hosts: Catostomus commersoni

Hybognathus hankinsoni

Perca flavescens Phoximus eos Pimephales promelas

Distribution: ON

Record: Kakonge 1972

*Elliptio complanata (Lightfoot, 1786) Rafinesque, 1819

Site: gills

Hosts: Catostomus commersoni (5)

Gasterosteus aculeatus (5) Perca flavescens (1, 2, 3, 4)

Distribution: NS, ON

Records: 1) Tedla & Fernando 1969a (ON); 2) Tedla 1969 (ON); 3) Tedla & Fernando 1970a (ON); 4) Tedla &

Fernando 1972 (ON); 5) Wiles 1975 (NS)

*Lampsilis radiata radiata (Gmelin, 1791) Rafinesque, 1820

Includes: Lampsilis radiata siliquodes (Barnes, 1823) of Tedla and Fernando (1969)

Site: gills

Hosts: Catostomus commersoni (6) Gasterosteus aculeatus (6)

Perca flavescens (1, 2, 3, 4, 5)

Distribution: NS, ON

Records: 1) Tedla & Fernando 1969a (ON); 2) Tedla 1969 (ON); 3) Tedla & Fernando 1969d (ON); 4) Tedla & Fernando 1970a (ON); 5) Tedla & Fernando 1972 (ON); 6) Wiles 1975 (NS)

*Lampsilis sp.

Sites: fins, gills

Hosts: Catostomus commersoni

Perca flavescens

Distribution: ON

Record: Kakonge 1972

*Lasmigona compressa (Lea, 1829)

Sites: fins, gills

Hosts: Culaea inconstans

Pimephales promelas

Distribution: ON

Record: Kakonge 1972

*Unionidae gen. sp.

Sites: body surface, fins, gills

Hosts: Carpiodes cyprimus (21, 25, 28)

Catostomus catostomus (5, 23, 26)

Catostomus commersoni (5, 7, 22,

23, 25, 28)

Coregonus artedii (26) Coregonus clupeaformis (1, 15)

Cottus ricei (23)

Couesius plumbeus (4, 23)

Esox lucius (13, 16, 19, 22, 28)

Gasterosteus aculeatus (4, 12, 22)

Hybognathus hankinsoni (10)

Lota lota (7, 23)

Moxostoma anisurum (28)

Notropis atherinoides (8)

Oncorhynchus mykiss (4)

Perca flavescens (3, 5, 6, 7, 9, 14,

22, 23, 24, 25, 27, 28)

Percopsis omiscomaycus (22, 24)

Phoxinus eos (26)

Phoxinus neogaeus (23)

Pimephales promelas (9, 10, 17)

Prosopium cylindraceum (26)

Ptychocheilus oregonensis (4)

Pungitius pungitius (7) Richardsonius balteatus (4) Salvelinus fontinalis (18, 20, 26) Salvelinus fontinalis X Salvelinus namaycush (26)

Stizostedion canadense (2, 7)
Stizostedion vitreum (5, 7, 14, 22,

25, 28)

Distribution: AB, BC, MB, NF, NS, ON,

QC

Records: 1) Hart 1930 (ON); 2) Bangham & Hunter 1939 (ON); 3) Bangham 1941 (ON); 4) Bangham & Adams 1954 (BC); 5) Bangham 1955 (ON); 6) Tedla & Fernando 1969a (ON); 7) Dechtiar 1972a (ON); 8) Dechtiar 1972b (ON); 9) Kakonge 1972 (ON); 10) Molnar et al. 1974 (ON); 11) Wiles 1975 (NS); 12) Lester 1975 (BC); 13) Watson 1977 (MB); 14) Anthony 1978b (ON); 15) Pybus & Samuel 1978 [AB - Cache Lake (P. flavescens), Blue Lake (C. clupeaformis)]; 16) Watson & Dick 1980 (MB); 17) Chan 1980 (ON); 18) Black 1981a (QC); 19) Anthony 1983 (ON); 20) Cone & Ryan 1984 (NF); 21) Szalai & Dick 1987a (MB); 22) Dechtiar & Christie 1988 (ON); 23) Dechtiar et al. 1988 (ON); 24) Dechtiar & Lawrie 1988 (ON); 25) Dechtiar & Nepszy 1988 (ON); 26) Dechtiar et al. 1989 (ON); 27) Szalai & Dick 1991a (MB); 28) Szalai et al. 1992 (MB)

PHYLUM ARTHROPODA

CLASS CRUSTACEA

SUBCLASS BRANCHIURA

ORDER ARGULOIDEA

FAMILY ARGULIDAE

Argulus appendiculosus Wilson, 1907

Site: body surface

Hosts: Carpiodes cyprinus (3, 4)
Catostomus commersoni (3, 4)
Coregonus artedii (3, 4)
Esox lucius (3, 4)
Hiodon alosoides (1)
Notropis atherinoides (3, 4)
Percopsis omiscomaycus (4)
Stizostedion canadense (2)

Stizostedion vitreum (3, 4)

Distribution: MB, ON, SK

Records: 1) Reed 1962 (SK); 2) Dechtiar 1972a (ON); 3) Szalai & Dick 1991b (MB); 4) Szalai et al. 1992 (MB)

Argulus biramosus Bere, 1931

Site: fins

Hosts: Catostomus commersoni Coregonus clupeaformis

Distribution: AB

Record: Clifford 1991 (AB - South Saskatchewan River drainage)

Argulus catostomi Dana and Herrick, 1837

Site: fins

Hosts: Carpiodes cyprinus (5)

Catostomus catostomus (4) Catostomus commersoni (1, 3, 5)

Culaea inconstans (2) Etheostoma exile (1) Moxostoma macrolepidotum (4) Phoxinus neogaeus (4)

Distribution: ON

Records: 1) Dechtiar 1972a; 2) Kakonge 1972; 3) Dechtiar & Christie 1988; 4) Dechtiar et al. 1988; 5) Dechtiar &

Nepszy 1988

Argulus stizostethi Kellicott, 1880

Synonym: Argulus canadensis Wilson,

1916

Site: body surface

Hosts: Acipsenser fulvescens (1, 6)
Catostomus commersoni (3)
Coregonus artedii (5, 9, 10, 11)
Coregonus clupeaformis (5, 10, 11)

Esox lucius (10, 12)

Gasterosteus aculeatus (8, 13, 14,

15, 16, 17, 18)

Notropis hudsonius (9) Perca flavescens (2, 9)

Pungitius pungitius (13, 14, 15, 17)

Salvelinus fontinalis (2, 7)

Stizostedion vitreum (3, 4, 5, 6, 9)

Distribution: MB, NF, ON, QC, SK Records: 1) Wilson 1916 (ON); 2)

Wilson 1936 (NS); 3) Stewart-Hay 1951b (MB); 4) Rawson 1957a (SK); 5) Rawson 1957b (SK); 6) Harkness & Dymond 1961 (ON); 7) Sandeman & Pippy 1967 (NF); 8) Threlfall 1968 (NF); 9) Dechtiar 1972a (ON); 10) Watson 1977 (MB); 11) Watson & Dick 1979 (MB); 12) Watson

& Dick 1980 (MB); 13) Poulin &

Fitzgerald 1987 (QC); 14) Poulin &

Fitzgerald 1988 (QC); 15) Poulin &

Fitzgerald 1989a (QC); 16) Poulin &

Fitzgerald 1989b (QC); 17) Poulin &

Fitzgerald 1989c (QC); 18) Poulin &

Fitzgerald 1989d (QC)

Argulus versicolor Wilson, 1902

Site: fins

Hosts: Percopsis omiscomaycus

Stizostedion vitreum

Distribution: ON

Record: Dechtiar 1972a

Argulus sp.

Site: body surface

Hosts: Coregonus artedii (1)

Esox lucius (2)

Percopsis omiscomaycus (1)

Distribution: ON

Records: 1) Bangham 1955; 2) Dechtiar

et al. 1988

SUBCLASS ENTOMOSTRACA

ORDER COPEPODA

SUBORDER CYCLOPOIDA

FAMILY LERNAEIDAE

Lernaea catostomi (Krøyer, 1863) Wilson, 1914

Site: penetrating into musculature from

body surface

Hosts: Catostomus catostomus Catostomus commersoni

Moxostoma macrolepidotum

Distribution: SK Record: Reed 1962

Lernaea cyprinacea Linneaus, 1758

Site: penetrating musculature from body surface

Hosts: Catostomus commersoni (2, 3, 4) Culaea inconstans (1)

Distribution: MB, ON

Records: 1) Kakonge 1972 (ON); 2) Lester & Daniels 1976 (ON); 3) Szalai & Dick 1991b (MB); 4) Szalai et al. 1992 (MB)

SUBORDER POECILOSTOMATOIDEA

FAMILY ERGASILIDAE

Ergasilus auritus Markevich, 1940

Synonym: Markewitschia aurita (Markevich, 1940)

Sites: body surface, gills

Hosts: Coregonus artedii (7, 8, 10) Coregonus clupeaformis (7, 8,10) Gasterosteus aculeatus (1, 2, 3, 4,

5, 9)

Oncorhynchus kisutch (7, 8, 10) Pungitius pungitius (8, 10) Salvelinus fontinalis (6) Salvelinus namaycush (7, 8, 10)

Distribution: AB, BC, LB, NF, ON, QC
Records: 1) Markevich 1940 (BC); 2)
Markevich 1956 (BC); 3) Roberts 1963
(BC); 4) Hanek & Threlfall 1970a (LB);
5) Hanek & Threlfall 1970c (NF); 6)
Hanek & Molnar 1974 (QC); 7) Leong &
Holmes 1974a (AB - Cold Lake); 8)
Leong 1975 (AB - Cold Lake); 9) Lester
1975 (BC); 10) Leong & Holmes 1981
(AB - Cold Lake)

Ergasilus caeruleus Wilson, 1911

Site: gills

Hosts: Carpiodes cyprinus (6, 19)

Catostomus catostomus (2, 4, 5, 7, 9, 10, 11, 12, 13, 14, 15, 17, 18, 20)

Catostomus commersoni (2, 4, 5, 7,

8, 9, 16, 17, 18, 19)

Coregonus artedii (2)

Coregonus clupeaformis (3, 8)

Esox lucius (18)

Lota lota (2, 3)

Moxostoma anisurum (7)

Moxostoma macrolepidotum (17)

Perca flavescens (4, 7, 8, 9, 17, 18,

21, 22)

Percopsis omiscomaycus (4, 6, 8,

17, 18)

Prosopium cylindraceum (3)

Rhinichthys cataractae (17)

Salvelinus fontinalis X Salvelinus

namaycush (8, 9)

Stizostedion canadense (1, 7)

Stizostedion vitreum (1, 4, 7, 16,

17, 19)

Distribution: AB, BC, LB, ON

Records: 1) Bangham & Hunter 1939 (ON); 2) Bangham 1941 (ON); 3)

Bangham & Venard 1946 (ON); 4)

Bangham 1955 (ON); 5) Threlfall &

Hanek 1970a (LB); 6) Dechtiar 1972b

(ON); 7) Dechtiar 1972a (ON); 8) Collins

& Dechtiar 1974 (ON); 9) Dechtiar &

Berst 1978 (ON); 10) Chinniah & Threlfall 1978 (LR): 11) Hangle &

Threlfall 1978 (LB); 11) Hanek &

Fernando 1978a (ON); 12) Hanek &

Fernando 1978b (ON); 13) Hanek &

Fernando 1978d (ON); 14) Hanek &

Fernando 1978e (ON); 15) Hanek &

Fernando 1978f (ON); 16) Dechtiar &

Christie 1988 (ON); 17) Dechtiar et al. 1988 (ON); 18) Dechtiar & Lawrie 1988

(ON); 19) Dechtiar & Nepszy 1988 (ON); 20) Dechtiar et al. 1989 (ON); 21) Zelmer 1994 (AB - Garner Lake); 22) Zelmer & Arai 1998 (AB - Garner Lake)

Ergasilus celestis Mueller, 1936

Synonym: Ergasilus osborni Tidd and Bangham, 1945 Site: gills Host: Lota lota Distribution: ON

Records: Tidd & Bangham 1945; Bangham & Venard 1946; Roberts 1970; Dechtiar 1972a; Dechtiar et al. 1988;

Dechtiar et al. 1989

Ergasilus centrachidarum Wright, 1882

Site: gills

Hosts: Catostomus catostomus (3)
Perca flavescens (1)
Stizostedion canadense (2)
Stizostedion vitreum (2, 4)

Distribution: ON

Records: 1) Wright 1882; 2) Bangham & Hunter 1939; 3) Roberts 1970; 4)

Dechtiar 1972a

Ergasilus cyprinaceus Rogers, 1969

Site: gills

Host: Pimephales promelas

Distribution: ON

Records: Molnar et al. 1974; Chan 1980

Ergasilus elongatus Wilson, 1916

Site: gills

Hosts: Coregonus clupeaformis Salvelinus namaycush

Distribution: ON

Record: Dechtiar et al. 1989

Ergasilus labracis Krøyer, 1864

Includes: Ergasilus funduli Krøyer, 1863

of Fréchet et al. (1983)

Site: gills

Host: Salvelinus fontinalis

Distribution: NB

Records: Frimeth 1987a; Frimeth 1987b

Ergasilus lizae Krøyer, 1863

Site: gills

Host: Carpiodes cyprinus

Distribution: MB

Records: Szalai & Dick 1987a; Szalai et

al. 1992

Ergasilus luciopercarum Henderson, 1926

Synonym: Ergasilus confusus Bere,

1926

Site: gills

Hosts: Coregonus artedii (23)

Esox lucius (12, 15)

Perca flavescens (3, 4, 5, 6, 7, 8,

10, 13, 14, 17, 18, 19, 20, 21, 22, 23)

Percopsis omiscomaycus (14)

Prosopium cylindraceum (11)

Salvelinus fontinalis (2)

Stizostedion canadense (14)

Stizostedion vitreum (1, 9, 13, 14,

16, 17, 18, 19, 20, 21, 23)

Distribution: LB, MB, NF, ON, QC

Records: 1) Henderson 1926 (QC); 2) Sandeman & Pippy 1967 (NF); 3) Tedla & Fernando 1969a (ON); 4) Tedla & Fernando 1969b (ON); 5) Tedla & Fernando 1969d (ON); 6) Tedla 1969 (ON); 7) Tedla & Fernando 1970a (ON); 8) Tedla & Fernando 1970c (ON); 9) Roberts 1970 (ON); 10) Tedla & Fernando 1972 (ON); 11) Hicks & Threlfall 1973 (LB); 12) Watson 1977 (MB); 13) Anthony 1978b (ON); 14) Lubinsky & Loch 1979 (MB); 15) Watson & Dick 1980 (MB); 16) Kinnis & Curtis 1981 (QC); 17) Poole & Dick 1985 (MB); 18) Dechtiar & Christie 1988 (ON); 19) Dechtiar et al. 1988 (ON); 20) Dechtiar & Lawrie 1988 (ON); 21) Dechtiar & Nepszy 1988 (ON); 22) Szalai & Dick 1991a (MB); 23) Szalai et al. 1992 (MB)

Ergasilus nerkae Roberts 1963

Includes: Ergasilus caeruleus of
Bangham and Adams 1954 (partim);
Ergasilus sp. of Bangham and Adams
(1954) (partim)

Site: gills

Hosts: Catostomus catostomus (1, 2, 3, 10, 13, 14)

Catostomus commersoni (8, 12) Catostomus macrocheilus (1, 2, 3,

8, 12)

Coregonus artedii (4, 5, 7, 8, 9, 11) Coregonus clupeaformis (4, 5, 7, 8,

9, 11, 12)

Couesius plumbeus (1, 2) Gasterosteus aculeatus (2) Hiodon alosoides (15) Lota lota (1) Oncorhynchus kisutch (4, 5, 11) Oncorhynchus mykiss (1, 2, 3, 6, 8, 12, 13)
Prosopium williamsoni (1, 2, 3)
Ptychocheilus oregonensis (1, 3,

12)
Richardsonius balteatus (1, 2, 3)
Salvelinus namaycush (4, 5, 6, 11)
Thymallus arcticus (8, 12)

AB, BC, MB, ON Distribution: 1) Bangham & Adams 1954 Records: (BC); 2) Roberts 1963 (BC); 3) Roberts 1970 (BC); 4) Leong & Holmes 1974a (AB - Cold Lake); 5) Leong 1975 (AB -Cold Lake); 6) Mudry & Anderson 1977 (AB - Pyramid Lake); 7) Watson 1977 (MB); 8) Anonymous 1978 (BC); 9) Watson & Dick 1979 (MB); 10) Anonymous 1981 (BC); 11) Leong & Holmes 1981 (AB - Cold Lake); 12) Arai & Mudry 1983 (BC); 13) Anonymous 1984 (BC); 14) Courtney 1987 (ON); 15) Szalai et al. 1992 (MB)

Ergasilus turgidus Fraser, 1920

Site: gills

Host: Gasterosteus aculeatus

Distribution: BC Record: Carl 1937

Ergasilus versicolor Wilson, 1911

Synonym: Ergasilus elegans Wilson, 1916

Site: gills

Hosts: Catostomus commersoni (5) Culaea inconstans (3, 4) Moxostoma anisurum (5) Noturus flavus (1, 2, 3, 4)

Distribution: MB, ON

Records: 1) Bangham & Hunter 1939 (ON); 2) Dechtiar 1972a (ON); 3) Dechtiar & Nepszy 1988 (ON); 4) Dechtiar et al. 1988 (ON); 5) Szalai et al. 1992 (MB)

Ergasilus sp.

Site: gills Hosts: Carpiodes cyprinus (13) Catostomus catostomus (9, 10) Catostomus commersoni (9, 10, 16) Coregonus artedii (7, 8, 18) Coregonus clupeaformis (1, 16) Cottus ricei (13) Couesius plumbeus (13) Culaea inconstans (16) Gasterosteus aculeatus (12) Hiodon alosoides (5) Notropis hudsonius (4, 8, 14) Perca flavescens (3, 4) Prosopium cylindraceum (1) Pungitius pungitius (4, 13) Salvelinus fontinalis (6, 11, 17) Stizostedion vitreum (2, 3)

Distribution: AB, MB, NF, ON Records: 1) Bangham 1941 (ON); 2) McLeod 1943 (MB); 3) McLeod 1944 (MB); 4) Stewart-Hay 1952b (MB); 5) Kennedy & Sprules 1967 (MB); 6) Threlfall & Hanek 1970c (NF); 7) Paetz & Nelson 1970 (AB - Lac la Biche); 8) Dechtiar 1972a (ON); 9) Leong 1975 (AB - Cold Lake); 10) Leong & Holmes 1981 (AB - Cold Lake); 11) Cone & Ryan 1984 (NF); 12) Dechtiar & Christie 1988 (ON); 13) Dechtiar et al. 1988 (ON); 14) Dechtiar & Lawrie 1988 (ON); 15) Stock 1988 (AB - Jarvis Lake); 16) Dechtiar et al. 1989 (ON); 17) Marcogliese & Cone 1991b (NF); 18)

Nelson & Paetz 1992 (AB - unspecified)

Therestina gasterostei (Pagenstecher, 1861) Norman, 1905

Sites: gill chamber, gills

Hosts: Gasterosteus aculeatus (1, 2, 3, 5, 6, 8)

Pungitius pungitius (4, 7, 8, 9, 10)
Distribution: BC, LB, NF, NS, QC
Records: 1) Threlfall 1968 (NF); 2)
Hanek & Threlfall 1969a (NF); 3) Hanek & Threlfall 1970a (LB, NF); 4) Hanek & Threlfall 1970b (LB); 5) Hanek & Molnar 1974 (QC); 6) Lester 1975 (BC); 7)
Dickinson & Threlfall 1976 (NF); 8)
Poulin & Fitzgerald 1987 (QC); 9)
Marcogliese 1992 (NS); 10) Marcogliese 1995 (NS)

SUBORDER SIPHONOSTOMATOIDEA

FAMILY LERNAEOPODIDAE

Achtheres pimelodi Krøyer, 1863

Synonyms: Achtheres ambloplitis Kellicott, 1880; Achtheres micropteri Wright, 1882

Sites: buccal cavity, gill chamber, gills
Hosts: Coregonus clupeaformis (1)
Perca flavescens (2)

Distribution: ON

Records: 1) Dechtiar 1972b; 2) Dechtiar & Nepszy 1988

Achtheres sp.

Site: gills

Host: Prosopium williamsoni

Distribution: AB

Record: Thompson 1974 (AB - Sheep River)

Coregonicola orientalis Markevich and Bauer, 1950

Site: penetrating musculature from body surface

Host: Coregonus clupeaformis

Distribution: NT

Record: Stewart & Bernier 1983

Coregonicola sp.

Site: penetrating musculature from body surface

Hosts: Coregonus clupeaformis (2) Prosopium williamsoni (1, 3)

Distribution: AB, NT

Records: 1) Paetz & Nelson 1970 (AB-not specified); 2) Reist et al. 1987 (NT);
3) Nelson & Paetz 1992 (AB - not specified)

Salmonicola californiensis (Dana, 1852) Wilson, 1915

Synonyms: Salmincola bicauliculata (Wilson, 1909); Salmincola carpenteri (Packard, 1874); Salmincola falculata (Wilson, 1908)

Sites: body surface, gill chamber, gills
Hosts: Oncorhynchus clarki (2)
Oncorhynchus kisutch (5, 6)
Oncorhynchus mykiss (2, 3, 4, 5,

6, 7)

Prosopium williamsoni (5) Salvelinus malma (1, 2) Salvelinus namaycush (4, 6)

Distribution: BC, NT

Records: 1) Wilson 1920 (NT); 2) Bere 1930b (BC); 3) Bell & Margolis 1976 (BC); 4) Anonymous 1978 (BC); 5) Anonymous 1981 (BC); 6) Arai & Mudry 1983 (BC); 7) Anonymous 1984 (BC)

Salmincola carpionis (Krøyer, 1837) Wilson, 1915

Synonyms: Salmincola giber (Wilson, 1908); Salmincola salvelini Richardson, 1938

Sites: body surface, branchial chamber, gills

Hosts: Salvelinus fontinalis (2, 3) Salvelinus malma (1)

Distribution: NT, QC

Records: 1) Wilson 1920 (NT); 2) Richardson 1938 (QC); 3) Kabata 1969 (QC)

Salmincola coregonorum (Kessler, 1868) Kabata, 1969

Site: gills

Host: Coregonus clupeaformis

Distribution: LB

Record: Chinniah & Threlfall 1978

Salmonicola corpulentus (Kellicott, 1880) Kabata, 1988

Synonyms: Achtheres corpulentus Kellicott, 1880; Salmonicola extumescens (Gadd, 1901) Wilson, 1915; Salmincola inermis (Wilson, 1911)

Sites: branchial chamber, gills

Hosts: Coregonus artedii (2, 5, 18, 19) Coregonus clupeaformis (1, 2, 4,

5, 7, 9, 10, 11, 12, 13, 14, 15, 17, 20)

Coregonus sp. (6)

Prosopium cylindraceum (18,

19)

Distribution: AB, LB, MB, NT, ON,

QC

1) Hart 1931 (ON); 2) Records: Pritchard 1931 (ON); 3) Miller 1945e (NT); 4) Rawson 1951 (NT); 5) Bangham 1955 (ON); 6) Kabata 1969 (NT, ON, QC); 7) Dechtiar 1972a (ON); 8) Dechtiar 1972b (ON); 9) Leong & Holmes 1974a (AB - Cold Lake); 10) Leong 1975 (AB - Cold Lake); 11) Watson 1977 (MB); 12) Chinniah & Threlfall 1978 (LB); 13) Watson & Dick 1979 (MB); 14) Leong & Holmes 1981 (AB - Cold Lake); 15) Stewart & Bernier 1983 (NT); 16) Stewart & Bernier 1984 (NT); 17) Dechtiar & Christie 1988 (ON); 18) Dechtiar et al. 1988 (ON); 19) Dechtiar & Lawrie 1988 (ON); 20) Hobbs (undated)

Salmincola edwardsi (Olsson, 1869) Wilson, 1915

(AB - Lesser Slave Lake)

Synonyms: Salmincola exsanguinata Sandeman and Pippy, 1967; Lernaeopoda arcturi Miers, 1877; Lernaeopoda edwardsi (Olsson, 1869)

Sites: body surface, branchial chamber,

gills

Hosts: Oncorhynchus clarki (9)
Oncorhynchus mykiss (6, 9)
Prosopium williamsoni (18, 23)
Salvelinus fontinalis (1, 2, 3, 4,

5, 6, 7, 8, 10, 11, 12, 13, 14, 16, 17, 19, 20, 21, 24, 25, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41)

Salvelinus malma (9, 11, 18, 23)

Salvelinus namaycush (15, 18, 22, 23, 26, 27)

Distribution: BC, EXP, LB, MB, NB, NF, NS, NT, ON, PE, QC, YT

Records: 1)Wright 1882 (QC); 2) Bere 1930a (NB); 3) Ricker 1932 (ON); 4) Savage 1935 (ON); 5) Richardson 1935 (QC); 6) Frost 1940 (NF); 7) MacLulich 1943b (ON); 8) Kooyman 1951 (MB); 9) Bangham & Adams 1954 (BC); 10) Sandeman & Pippy 1967 (NF); 11) Kabata 1969 (BC, NF, ON); 12) Hicks & Threlfall 1973 (LB); 13) Hanek & Molnar 1974 (QC); 14) Hare & Frantsi 1974 (NS, PE); 15) Arthur et al. 1976 (YT); 16) Gaboury 1978 (MB); 17) Chinniah & Threlfall 1978 (LB); 18) Anonymous 1978 (BC); 19) Black 1981a (QC); 20) Black 1982b (ON); 21) Black 1982a (ON); 22) Stewart & Bernier 1982 (NT); 23) Arai & Mudry 1983 (BC); 24) Cone & Ryan 1984 (NF); 25) Black et al. 1983 (QC); 26) Stewart & Bernier 1983 (NT); 27) Stewart & Bernier 1984 (NT); 28) Frimeth 1987a (NB); 29) Frimeth 1987b (NB); 30) Conley & Curtis 1988 (QC); 31) Dechtiar et al. 1988 (ON); 32) Albert & Curtis 1988 (QC); 33) Poulin et al. 1989 (QC); 34) Poulin et al. 1990a (QC); 35) Poulin et al. 1990b (QC); 36) Poulin et al. 1991 (EXP, QC); 37) Marcogliese & Cone 1991b (NF); 38) Conley & Curtis 1992 (QC); 39) Conley & Curtis 1993 (QC); 40) Conley & Curtis 1994 (QC); 41) Dubois et al. 1996 (QC)

Salmincola extensus (Kessler, 1868)

Kabata, 1969

Synonyms: Salmincola wisconsinensis Tidd and Bangham 1945; Achtheres coregoni Baumann, 1911

Site: body surface

Hosts: Coregonus artedii (3, 6, 8, 10, 13) Coregonus clupeaformis (1, 4, 5,

6, 7, 8, 10, 13)

Esox lucius (8, 11)

Prosopium cylindraceum (2, 3)

Prosopium williamsoni (2, 9, 12,

14, 15)

Distribution: AB, BC, LB, MB, ON Records: 1) Hart 1931 (ON); 2)

Bangham & Adams 1954 (BC); 3)

Bangham 1955 (ON); 4) Hicks &

Threlfall 1973 (LB); 5) Leong & Holmes 1974a (AB - Cold Lake); 6) Leong 1975

(AB - Cold Lake); 7) Arthur et al. 1976 (YT); 8) Watson 1977 (MB); 9)

Anonymous 1978 (BC); 10) Watson &

Dick 1979 (MB); 11) Watson & Dick 1980 (MB); 12) Anonymous 1981 (BC);

13) Leong & Holmes 1981 (AB - Cold Lake); 14) Arai & Mudry 1983 (BC); 15)

Anonymous 1984 (BC)

Salmincola lotae (Olsson, 1877) Wilson, 1915

Site: gills
Host: Lota lota
Distribution: NT

Record: Stewart & Bernier 1983

Salmincola siscowet (Smith, 1874) Wilson 1915

Sites: body surface, gills

Hosts: Salvelinus fontinalis X Salvelinus namaycush (12)

Salvelinus malma (1)

Salvelinus namaycush (1, 2, 3, 4,

5, 6, 7, 8, 9, 10, 11, 12)

Distribution: BC, LB, NT, ON, QC, SK

Records: 1) Wilson 1920 (NT); 2)

MacLulich 1943b (ON); 3) Miller 1945e (NT); 4) Miller & Kennedy 1948 (NT); 5)

Rawson 1951 (NT); 6) Rawson 1961

(SK); 7) Kabata 1969 (QC); 8) Dechtiar

1972a (ON); 9) Chinniah & Threlfall 1978

(LB); 10) Anonymous 1984 (BC); 11)

Dechtiar & Lawrie 1988 (ON); 12)

Anderson 1993 (ON)

Salmincola thymalli (Kessler, 1868) Wilson, 1915

Site: gills

Hosts: Coregonus clupeaformis (11)

Prosopium cylindraceum (5, 12)

Prosopium williamsoni (7, 8, 9, 10,

11)

Thymallus arcticus (1, 2, 3, 4, 6, 7,

8, 10)

Distribution: BC, LB, NT, ON, YT

Records: 1) Miller 1945e (NT); 2) Miller 1946a (NT); 3) Rawson 1951 (NT); 4) Kabata 1969 (NT); 5) Hicks & Threlfall 1973 (LB); 6) Arthur et al. 1976 (YT); 7) Anonymous 1978 (BC); 8) Anonymous

1981 (BC); 9) Anonymous 1983 (BC);

10) Arai & Mudry 1983 (BC); 11)

Anonymous 1984 (BC); 12) Dechtiar et

al. 1989 (ON)

Salmincola sp.

Sites: body surface, buccal cavity, gills

Hosts: Coregonus clupeaformis (3)

Prosopium cylindraceum (6) Prosopium williamsoni (5) Salvelinus fontinalis (2, 8, 11) Salvelinus namaycush (1, 4, 5, 7,

9, 10)

Distribution: BC, MB, NF, NT, ON,

QC, SK

Records: 1) Stewart-Hay 1951c (MB); 2) Kooyman 1951 (MB); 3) McTavish 1952 (MB); 4) Stewart-Hay 1953b (MB); 5) Bangham & Adams 1954 (BC); 6)

Bangham 1955 (ON); 7) Rawson 1959 (SK); 8) Hanek & Molnar 1974 (QC); 9) Stewart & Bernier 1982 (NT); 10) Anonymous 1984 (BC); 11) Marcogliese

& Cone 1991 (NF)

Copepoda gen. sp.

Sites: buccal cavity, fins, gills Hosts: Gasterosteus aculeatus (3)

Oncorhynchus mykiss (2) Stizostedion vitreum (1)

Distribution: BC, NF, ON

Records: 1) Moore 1936 (ON); 2) Frost 1940 (NF); 3) Bangham & Adams 1954 (BC)

C)

CLASS ARACHNOIDEA

ORDER ACARINA

SUBORDER TROMBIDIFORMES

SUPERFAMILY HYDRACHNAE

FAMILY HYDRACHNIDAE

*Hydrachna sp.

Site: gills

Host: Perca flavescens
Distribution: ON

Record: Tedla & Fernando 1969a

SUPERFAMILY PIONAE

FAMILY UNIONICOLIDAE

*Unionicola sp.

Site: viscera

Hosts: Coregonus clupeaformis (2, 3)

Oncorhynchus mykiss (2)

Prosopium williamsoni (1, 2, 3) Ptychocheilus oregonensis (1)

Distribution: BC

Records: 1) Anonymous 1981; 2) Ching

& Parker 1983; 3) Anonymous 1984

HOST-PARASITE LIST

CLASS CEPHALASPIDOMORPHI

ORDER PETROMYZONTIFORMES

FAMILY PETROMYZONTIDAE - lampreys

Lampetra japonica (Martens) Arctic lamprey

Cestoidea:

*Triaenophorus crassus (NT)

CLASS OSTEICHTHYES

ORDER ACIPENSERIFORMES

FAMILY ACIPENSERIDAE - sturgeons

Acipenser fulvescens Rafinesque, 1817 lake sturgeon

Cnidaria:

Polypodium hydriforme (MB, SK) Polypodium sp. (MB, SK)

Monogenea:

Diclybothrium atriatum (MB, ON, QC, SK)
Diclybothrium hamulatum (ON)

Paradiclybothrium sp. (ON)

Digenea:

Allocreadiidae gen. sp. (ON)

Allocreadium sp. (ON)

Azygia longa (MB)

Bunodera luciopercae (ON)

Crepidostomum auriculatum (MB, ON,

QC, SK)

Deropristis hispidus (QC)

Digenea gen. sp. (ON)

*Diplostomum spathaceum (ON)

*Diplostomum sp. (MB, ON, QC, SK)

Homalometron armatum (ON)

Skrjabinopsolus manteri (ON)

Cestoidea:

Cestoidea gen. sp. (ON)

*Proteocephalidae gen. sp. (MB, ON, SK)

*Tetraphyllidea gen. sp. (MB)

*Triaenophorus nodulosus (ON)

Nematoda:

**Nematoda gen. sp. (ON)

**Raphidascaris sp. (ON)

Rhabdochona cascadilla (MB, ON)

Rhabdochonidae gen. sp. (SK)

Spinitectus acipenseri (MB, SK)

Spinitectus gracilis (MB, ON, SK)

Spinitectus sp. (MB, ON, SK)

Sterliadochona sp. (MB, SK)

Truttaedacnitis clitellarius (MB, ON, SK)

Acanthocephala:

Acanthocephala gen. sp. (MB, ON, SK)

Echinorhynchus lateralis (ON)
Echinorhynchus leidyi (MB)
Leptorhynchoides thecatus (MB)
Neoechinorhynchus rutili (ON)

Neoechinorhynchus tenellus (MB)
Pomphorhynchus bulbocolli (MB, SK)

Annelida:

Glossiphonidae gen. sp. (MB) Hirudinea gen. sp. (MB, SK) Macrobdella decora (ON) Piscicola punctata (ON) Piscicola sp. (MB) Placobdella montifera (MB) Placobdella sp. (MB)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus stizostethi (ON)

ORDER OSTEOGLOSSIFORMES

FAMILY HIODONTIDAE - mooneyes

Hiodon alosoides (Rafinesque)

Digenea:

Azygia longa (MB)
Bucephalus sp. (MB, ON)
Crepidostomum illinoiense (MB)
Crepidostomum sp. (MB)
*Heterophyes sp. (MB)
Lissorchis crassicrurum (MB)

Paurorhynchus hiodontos (AB, MB, SK)

Cestoidea:

Bothriocephalus cuspidatus (AB, HBD, MB, ON, SK)
*Ligula intestinalis (MB)

Nematoda:

**Raphidascaris acus (MB) Rhabdochona canadensis (MB)

Copepoda:

Ergasilus nerkae (MB) Ergasilus sp. (MB)

Hiodon tergisus Leseuer mooneye

Monogenea:

Mazocraeoides sp. (ON)

Digenea:

Crepidostomum illinoiense (MB, ON)
*Heterophyes sp. (MB)
Leuceruthrus micropteri (ON)
Paurorhynchus hiodontos (MB)
Plagioporus serratus (QC)
*Tetracotyle sp. (ON)

Cestoidea:

Bothriocephalus cuspidatus (HBD, ON)
Bothriocephalus sp. (AB, NT)
*Proteocephalus stizostethi (ON)
Proteocephalus sp. (ON)

Nematoda:

Camallanus oxycephalus (ON) Rhabdochona cascadilla (ON) Sterliadochona ephemeridarum (MB)

Acanthocephala:

Pomphorhynchus bulbocolli (MB, ON)

ORDER CYPRINIFORMES

FAMILY CYPRINIDAE - minnows

Couesius plumbeus (Agassiz) lake chub

Monogenea:

Cleidodiscus brachus (LB, ON)
Dactylogyrus banghami (BC, ON)
Dactylogyrus mylocheilus (BC, ON)
Gyrodactyloidea gen. sp. (BC)
Gyrodactylus aldrichi (LB)
Gyrodactylus couesius (BC, ON)
Gyrodactylus plumbeus (LB)
Octomacrum semotili (ON)
Octomacrum sp. (ON)

Digenea:

Allocreadium lobatum (BC, LB)

*Crassiphialia bulboglossa (ON)

*Diplostomum baeri bucculentum (BC)

*Diplostomum spathaceum (BC, ON, QC)

*Diplostomum sp. (BC, ON, QC)

*Neascus sp. (BC, ON)

Plagioporus cooperi (ON)

*Posthodiplostomum minimum (BC,

ON)

*Tetracotyle sp. (BC, LB, ON)

Cestoidea:

Eubothrium sp. (BC)

*Hymenolepis sp. (BC)

*Ligula intestinalis (AB, BC)

Proteocephalus sp. (BC, ON)

Nematoda:

Nematoda gen. sp. (BC)

Pseudocapillaria (Pseudocapillaria)

tomentosa (BC)

Rhabdochona canadensis (AB, ON)

Rhabdochona cascadilla (BC)

Rhabdochona sp. (ON)

Acanthocephala:

Echinorhynchus salmonis (ON) Neoechinorhynchus rutili (BC, ON)

Mollusca:

*Unionidae gen. sp. (BC, ON)

Copepoda:

Ergasilus nerkae (BC)

Ergasilus sp. (ON)

Hybognathus hankinsoni Hubbs brassy minnow

Monogenea:

Dactylogyrus hankinsoni (ON)

Dactylogyrus sp. (ON)

Gyrodactylus sp. (ON)

Octomacrum sp. (ON)

Digenea:

*Clinostomum complanatum (ON)

*Diplostomum spathaceum (ON)

*Diplostomum sp. (ON)

*Neascus sp. (ON)

*Ornithodiplostomum ptychocheilus (ON)

Plagioporus sinitsini (ON)

*Posthodiplostomum minimum minimum (ON)

*Rhipidocotyle sp. (ON)

*Tetracotyle sp. (ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

*Ligula intestinalis (ON)

Mollusca:

*Anodontoides ferussacinea (ON)

*Unionidae gen. sp. (ON)

Margariscus margarita Cope pearl dace

Monogenea:

Cleidodiscus brachus (NB, ON)

Dactylogyrus banghami (ON)

Dactylogyrus sp. (NB, ON)

Gyrodactylus margaritae (ON)

Octomacrum microconfibula (NB)

Octomacrum semotili (ON)
Octomacrum sp. (ON)

Digenea:

Crepidostomum sp. (ON)

- *Digenea gen. sp. (MB)
- *Diplostomum sp. (QC)
- *Neascus sp. (ON)
- *Tetracotyle sp. (ON)
- *Uvulifer ambloplitis (ON)

Cestoidea:

Proteocephalus pearsei (EXP)

Nematoda:

Rhabdochona canadensis (ON) Rhabdochona cascadilla (ON, QC)

Annelida:

Piscicola sp. (ON)

Notropis atherinoides Rafinesque emerald shiner

Monogenea:

Dactylogyrus sp. (ON) Gyrodactyloidea gen. sp. (ON) Gyrodactylus sp. (ON)

Digenea:

- *Centrovarium lobotes (MB)
- Digenea gen. sp. (ON)
- *Diplostomum spathaceum (ON)
- *Diplostomum spathaceum indistinctum (ON)
- *Diplostomum sp. (MB, ON, SK) Leuceruthrus micropteri (ON)
- Plagioporus cooperi (ON)
- *Posthodiplostomum cuticola (ON)
- *Posthodiplostomum minimum minimum (ON)

*Strigeidae gen. sp. (ON)

Cestoidea:

Bothriocephalus cuspidatus (ON)

*Ligula intestinalis (SK)

*Proteocephalus ambloplitis (ON) Proteocephalus pearsei (ON) Proteocephalus pinguis (ON) Proteocephalus sp. (ON)

Nematoda:

Camallarus oxycephalus (ON)

*Contracaecum sp. (MB) Hysterothylacium brachyurum (ON)

Rhabdochona sp. (ON)

Acanthocephala:

Neoechinorhynchus sp. (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus appendiculosus (MB)

Notropis hudsonius (Clinton) spottail shiner

Monogenea:

Dactylogyrus sp. (ON) Gyrodactyloidea gen. sp. (ON) Gyrodactylus sp. (ON) Octomacrum semotili (ON)

Digenea:

Allocreadium lobatum (ON)

*Apophallus brevis (MB, ON)

Bucephalus sp. (ON)

*Centrovarium lobotes (ON)

Centrovarium lobotes (ON)

*Clinostomum complanatum (MB, ON)

*Crassiphialia bulboglossa (MB, ON)

*Cryptogonimus chili (ON)

**Digenea gen. sp. (MB)

*Diplostomum spathaceum (MB, ON, SK)

*Diplostomum sp. (MB, ON, SK)

Leuceruthrus micropteri (ON)

Lissorchis sp. (ON)

*Neascus sp. (AB, ON)

Plagioporus cooperi (ON)

Plagioporus sinitsini (ON)

*Posthodiplostomum minimum (ON)

*Posthodiplostomum minimum minimum (ON)

Sanguinicola sp. (ON)

*Tetracotyle sp. (ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

Bothriocephalus cuspidatus (MB, ON)

Glaridacris sp. (ON)

*Ligula intestinalis (AB, MB, ON, SK)

*Ligula sp. (MB)

Proteocephalus ambloplitis (ON)

Proteocephalus pinguis (MB, ON)

Proteocephalus sp. (ON)

*Schistocephalus solidus (MB)

*Schistocephalus sp. (AB)

Spartoides wardi (MB, ON)

*Triaenophorus nodulosus (MB, ON)

Nematoda:

Camallanus oxycephalus (ON)

*Contracaecum sp. (LB, MB, ON)

*Cosmocephalus obvelatus (ON)

**Nematoda gen. sp. (ON)

Paracuaria adunca (ON)

*Raphidascaris acus (MB)

Rhabdochona cascadilla (ON)

Rhabdochona decaturensis (ON)

Rhabdochona sp. (MB)

Spinitectus gracilis (ON)

Acanthocephala:

Echinorhynchus salmonis (ON)

Leptorhynchoides thecatus (ON)

Neoechinorhynchus notemigoni (ON)

Neoechinorhynchus rutili (ON)

Neoechinorhynchus sp. (ON)

Pomphorhynchus bulbocolli (MB, ON)

Pomphorhynchus sp. (MB)

Annelida:

Myzobdella lugubris (MB)

Branchiura:

Argulus stizostethi (ON)

Copepoda:

Ergasilus sp. (AB, MB, ON)

Phoxinus eos Cope northern redbelly dace

Monogenea:

Cleidodiscus brachus (NB)

Dactylogyrus chrosomi (ON)

Dactylogyrus eos (NB, ON)

Gyrodactylidae gen. sp. (ON)

Gyrodactyloidea gen. sp. (ON) Gyrodactylus sp. (NB, ON) Octomacrum microconfibula (NB) Octomacrum semotili (ON)

Digenea:

Allocreadium isoporum (QC)

- *Clinostomum complanatum (ON)
- *Clinostomum sp. (QC)
- *Crassiphialia bulboglossa (QC)
- *Digenea gen. sp. (ON)
- *Diplostomum sp. (ON)
- *Neascus sp. (ON)

Phyllodistomum sp. (ON)

- *Posthodiplostomum minimum (ON)
- *Tetracotyle sp. (ON)
- *Uvulifer ambloplitis (ON)

Cestoidea:

- *Ligula intestinalis (ON)
- *Paradilepis sp. (ON)

Nematoda:

- *Contracaecum sp. (QC)
- **Nematoda gen. sp. (ON)
 Rhabdochona canadensis (ON)

Rhabdochona cascadilla (ON, QC)

*Tetrameres sp. (QC)

Acanthocephala:

Neoechinorhynchus rutili (ON) Pomphorhynchus bulbocolli (ON, QC)

Mollusca:

- *Anodontoides ferrussacinea (ON)
- *Unionidae gen. sp. (ON)

Phoximus neogaeus finescale dace

Monogenea:

Cleidodiscus brachus (ON)
Dactylogyrus chrosomi (ON)
Dactylogyrus sp. (ON)
Gyrodactylidae gen. sp. (ON)
Gyrodactylus sp. (ON)
Octomacrum semotili (ON)

Digenea:

*Clinostomum complanatum (ON)
Diplostomum spathaceum (ON)
Ichthyocotylurus platycephalus (ON)
*Neascus sp. (ON)
Phyllodistomum sp. (ON)
*Posthodiplostomum minimum (ON)
*Tetracotyle sp. (ON)
*Uvulifer ambloplitis (ON)

Cestoidea:

*Paradilepis sp. (ON) Pliovitellaria wisconsinensis (ON) Proteocephalus sp. (ON)

Nematoda:

**Nematoda gen. sp. (ON)
Rhabdochona canadensis (ON)
*Spiroxys sp. (ON)

Acanthocephala:

Neoechinorhynchus rutili (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus catostomi (ON)

Pimephales promelas Rafinesque fathead minnow

Monogenea:

Dactylogyrus bifurcatus (ON)
Dactylogyrus bychowskyi (ON)
Dactylogyrus mollis (ON)
Dactylogyrus sp. (ON)
Gyrodactyloidea gen. 3p. (ON)
Gyrodactylus hoffmani (ON)
Gyrodactylus lacustris (ON)
Gyrodactylus sp. (ON)
Octomacrum lanceatum (ON)

Digenea:

Allocreadium lobatum (ON)

Octomacrum semotili (ON)

- *Clinostomum complanatum (ON)
- *Crassiphialia bulboglossa (MB, ON)
- *Diplostomum spathaceum (ON)
- *Diplostomum sp. (ON)
- *Neascus sp. (ON)
- *Ornithodiplostomum ptychocheilus (ON)

Plagioporus sinitsini (ON)

- *Posthodiplostomum minimum (ON)
- *Posthodiplostomum minimum minimum (ON)

Sanguinicola sp. (ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

Biacetabulum sp. (ON)

*Ligula intestinalis (ON, SK)

Pliovitellaria wisconsinensis (ON) **Proteocephalus sp. (ON)

Nematoda:

Contracaecum sp. (AB, MB) *Raphidascaris acus (ON) Rhabdochona sp. (ON)

Acanthocephala:

Neoechinorhynchus sp. (ON)

Mollusca:

*Lasmigona compressa (ON)
*Unionidae gen. sp. (ON)

Copepoda

Ergasilus cyprinaceus (ON):

Platygobio gracilis (Richardson) flathead chub

Monogenea:

Cleidodiscus brachus (AB) Dactylogyrus albertensis (AB)

Nematoda:

Rhabdochona canadensis (AB)

Ptychocheilus oregonensis (Richardson) northern squawfish

Monogenea:

Dactylogyrus columbiensis (BC)

Dactylogyrus ptychocheilus (BC) Dactylogyrus tridactylus (BC) Dactylogyrus vancleavei (BC) Gyrodactyloidea gen. sp. (BC) Gyrodactylus sp. (BC)

Digenea:

Allocreadium isoporum (BC)
Allocreadium lobatum (BC)
Crepidostomum farionis (BC)
*Diplostomum baeri bucculentum
(BC)

*Diplostomum spathaceum (BC)

*Diplostomum sp. (BC)

*Ichthyocotylurus platycephalus (BC)

*Neascus sp. (BC)
Phyllodistomum sp. (BC)

*Posthodiplostomum minimum (BC)

*Strigeidae gen. sp. (BC)

*Tetracotyle sp. (BC)

*Tylodelphys scheuringi (BC)

Cestoidea:

Bothriocephalus acheilognathi (BC)
Cestoidea gen. sp. (BC)
Eubothrium salvelini (AB, BC)
Eubothrium tulipai (BC)
Eubothrium sp. (BC)
*Ligula intestinalis (BC)
*Paradilepis simoni (BC)
Proteocephalus ptychocheilus (BC)

Nematoda:

Capillariidae gen. sp. (BC)
*Contracaecum spiculigerum (BC)
*Eustrongylides sp. (BC)
**Hysterothylacium sp. (BC)
Pseudocapillaria (Pseudocapillaria

Pseudocapillaria (Pseudocapillaria) tomentosa (BC) *Raphidascaris acus (BC) Rhabdochona cascadilla (BC) Rhabdochona sp. (BC) *Spiroxys sp. (BC) Truttaedacnitis truttae (BC)

Acanthocephala:

Neoechinorhynchus rutili (BC) Neoechinorhynchus saginatus (BC) Neoechinorhynchus salmonis (BC) Neoechinorhynchus venustus (BC) Pomphorhynchus bulbocolli (BC)

Annelida:

Illinobdella sp. (BC) Myzobdella sp. (BC) Piscicola punctata (BC)

Mollusca:

*Anodonta sp. (BC)
*Unionidae gen. sp. (BC)

Copepoda:

Ergasilus nerkae (BC)

Arachnoidea:

*Unionicola sp. (BC)

Rhinichthys cataractae (Valenciennes) longnose dace

Monogenea:

Dactylogyrus banghami (AB, BC, ON)
Gyrodactyloidea gen. sp. (BC)

Gyrodactylus atratuli (ON) Gyrodactylus dechtiari (ON) Gyrodactylus stunkardi (LB, ON)

Digenea:

Allocreadium lobatum (ON)

- *Crassiphialia bulboglossa (ON)
- *Digenea gen. sp. (MB)
- *Diplostomum spathaceum (ON)
- *Diplostomum sp. (MB, ON, SK)
- *Neascus rhinichthysi (ON)
- *Neascus sp. (BC, ON)

Plagioporus cooperi (ON)

- *Posthodiplostomum minimum (BC, ON)
- *Tetracotyle sp. (BC, ON)
- *Tylodelphys scheuringi (ON)

Cestoidea:

Cestoidea gen. sp. (AB)

*Ligula sp. (AB)

*Triaenophorus nodulosus (ON)

Nematoda:

Camallanus oxycephalus (ON)

Rhabdochona canadensis (AB, ON)

Rhabdochona cascadilla (BC)

Rhabdochona milleri (BC)

*Spiroxys sp. (ON)

Sterliadochona ephemeridarum (BC)

**Truttaedacnitis sp. (BC)

Acanthocephala:

Pomphorhynchus bulbocolli (ON)

Copepoda:

Ergasilus caeruleus (ON)

Richardsonius balteatus (Richardson) redside shiner

Monogenea:

Dactylogyrus banghami (BC)
Dactylogyrus richardsonius (BC)
Gyrodactyloidea gen. sp. (BC)
Octomacrum microconfibula (BC)
Octomacrum sp. (BC)

Pellucidhaptor pellucidhaptor (BC)

Digenea:

Allocreadium lobatum (BC)

- *Clinostomum complanatum (BC)
- *Diplostomum sp. (BC)
- *Neascus sp. (BC)

Phyllodistomum sp. (BC)

- *Posthodiplostomum minimum (BC)
- *Tetracotyle sp. (BC)
- *Tylodelphys scheuringi (BC)

Cestoidea:

Eubothrium sp. (BC)

*Ligula intestinalis (BC)

*Ligula sp. (AB, MB)

Proteocephalus sp. (BC)

*Schistocephalus sp. (BC)

Nematoda:

Pseudocapillaria (Pseudocapillaria) tomentosa (BC) Rhabdochona cascadilla (BC) Rhabdochona sp. (BC) *Spiroxys sp. (BC) Truttaedacnitis sp. (BC)

Acanthocephala:

Neoechinorhynchus cylindratus (BC) Neoechinorhynchus rutili (BC) Neoechinorhynchus sp. (BC) Pomphorhynchus bulbocolli (BC)

Mollusca:

*Unionidae gen. sp. (BC)

Copepoda:

Ergasilus nerkae (BC)

FAMILY CATOSTOMIDAE - suckers

Carpiodes cyprinus (Lesueur) quillback

Monogenea:

Acolpenteron catostomi (ON)
Anonchohaptor anomalum (MB, ON)
Anonchohaptor muelleri (ON)
Anonchohaptor sp. (ON)
Gyrodactylus sp. (ON)
Icelanonchohaptor fyviei (ON)
Icelanonchohaptor microcotyle (ON)
Neodiscocotyle carpioditis (ON)
Pellucidhaptor angularis (ON)
Pellucidhaptor eremitus (ON)
Pellucidhaptor eriensis (ON)
Pellucidhaptor micracanthus (ON)
Pellucidhaptor sp. (ON)

Digenea:

Digenea gen. sp. (MB)
*Diplostomum spathaceum (ON)
*Diplostomum sp. (MB, ON, SK)
Lissorchis attenuatus (ON)
Lissorchis gullaris (MB)

Phyllodistomum lysteri (ON)

*Posthodiplostomum minimum (ON)

*Posthodiplostomum minimum minimum (ON)

Sanguinicola sp. (ON)

Cestoidea:

*Tetracotyle sp. (ON)

Biacetabulum sp. (ON)
Glaridacris confusus (ON)
Glaridacris terebrans (ON)
Glaridacris sp. (AB, BC)
Hunterella nodulosa (AB, ON)
Hypocaryophyllaeus paratarius (ON)
Isoglaridacris calentinei (BC)
*Ligula intestinalis (MB)
Monobothrium hunteri (MB, ON)
Monobothrium sp. (BC)
Proteocephalus sp. (LB, ON)
Rowardleus pennensis (MB)
Spartoides wardi (MB, ON)
*Triaenophorus nodulosus (ON)

Nematoda:

Camallanus ancylodirus (ON) Camallanus oxycephalus (ON) Philometroides nodulosa (ON) Rhabdochona cascadilla (ON) Rhabdochona milleri (ON)

Acanthocephala:

Neoechinorhynchus carpiodi (MB, ON)
Neoechinorhynchus crassus (ON)
Neoechinorhynchus sp. (MB)
Pomphorhynchus bulbocolli (MB, ON)

Mollusca:

*Unionidae gen. sp. (MB, ON)

Branchiura:

Argulus appendiculosus (MB) Argulus catostomi (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus lizae (MB) Ergasilus sp. (ON)

Catostomus catostomus (Forster) longnose sucker

Monogenea:

Acolpenteron catostomi (BC, ON, QC)
Anonchohaptor anomalum (BC, LB, ON, YT)
Gyrodactyloidea gen. sp. (BC)
Gyrodactylus aquilinus (BC)
Gyrodactylus atratuli (LB)
Gyrodactylus spathulatus (LB)
Gyrodactylus sp. (ON)
Monogenea gen. sp. (BC)
Octomacrum lanceatum (BC, ON)
Pellucidhaptor catostomi (ON)
Pellucidhaptor nasalis (BC)
Pseudomurraytrema copulatum (BC, ON)

Digenea:

Allocreadium lobatum (BC, QC, SK) Bucephalus sp. (BC, ON) Crepidostomum farionis (BC) *Digenea gen. sp. (MB) *Diplostomum spathaceum (CA, LB, ON, YT)

*Diplostomum spathaceum indistinctum (ON) *Diplostomum sp. (BC, LB, QC) *Ichthyocotylurus erraticus (ON) *Ichthyocotylurus platycephalus (BC, ON) Lissorchis attenuatus (BC, ON) Lissorchis gullaris (LB) Lissorchis simeri (ON) Lissorchis sp. (ON) *Metorchis conjunctus (QC, SK) *Neascus sp. (AB, BC) Phyllodistomum lysteri (ON) Phyllodistomum sp. (ON) Plagiocirrus sp. (BC) Plagioporus sinitsini (ON) *Posthodiplostomum minimum (BC, ON) Sanguinicola sp. (ON) Sanguinicolidae gen. sp. (BC) *Tetracotyle sp. (BC, ON)

Cestoidea:

Caryophyllidea gen. sp. (AB, BC, ON) Cestoidea gen. sp. (AB, BC, NT) Eubothrium sp. (BC, MB) Glaridacris catostomi (AB, BC, MB, NT, ON, QC, SK, YT) Glaridacris terebrans (BC) Glaridacris sp. (AB) Hunterella nodulosa (AB, LB, ON) Isoglaridacris calentinei (BC) *Ligula intestinalis (AB, BC, MB, ON, SK) *Ligula sp. (AB) Monobothrium sp. (BC) Proteocephalus sp. (LB, ON) *Schistocephalus sp. (BC) *Triaenophorus nodulosus (ON) *Triaenophorus sp. (ON)

Nematoda:

Cystidicola farionis (YT)

*Eustrongylides tubifex (ON)

**Philometra sp. (QC)

Philometroides huronensis (BC, ON)

Philometroides nodulosus (ON)

 $Pseudocapillaria \ (Pseudocapillaria)$

tomentosa (BC, ON)

Raphidascaris acus (ON, QC)

Rhabdochona cascadilla (AB, BC, OC)

Rhabdochona catostomi (AB)

Rhabdochona ovifilamenta (AB)

Rhabdochona sp. (BC, LB)

Acanthocephala:

Acanthocephalus dirus (ON)

Echinorhynchus lateralis (QC)

Echinorhynchus leidyi (ON)

Echinorhynchus salmonis (AB, MB, ON)

Leptorhynchoides thecatus (ON)

Neoechinorhynchus crassus (LB, MB, ON)

Neoechinorhynchus rutili (AB, BC)

Neoechinorhynchus saginatus (BC)

Neoechinorhynchus salmonis (BC) Neoechinorhynchus strigosus (LB,

ON)

Neoechinorhynchus venustus (AB,

BC, LB, ON, QC)

Neoechinorhynchus sp. (NT)

Octospinifer macilentus (AB, BC, ON)

Pomphorhynchus bulbocolli (BC, ON)

Annelida:

Actinobdella inequiannulata (BC, ON, SK)

Actinobdella sp. (ON) Myzobdella lugubris (SK) Piscicola geometra (SK)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus catostomi (ON)

Copepoda:

Ergasilus caeruleus (LB, ON)

Ergasilus centrarchidarum (ON, QC)

Ergasilus nerkae (BC, ON)

Ergasilus sp. (AB)

Lernaea catostomi (SK)

Catostomus commersoni (Lacépède) white sucker

Monogenea:

Acolpenteron catostomi (BC, NB, ON)

Anonchohaptor anomalum (BC, LB,

NB, ON, QC)

Dactylogyrus sp. (ON)

Gyrodactyloidea gen. sp. (ON)

Gyrodactylidae gen. sp. (ON)

Gyrodactylus aquilinus (ON)

Gyrodactylus atratuli (ON)

Gyrodactylus commersoni (LB)

Gyrodactylus limi (ON)

Gyrodactylus spathulatus (ON)

Gyrodactylus stunkardi (ON)

Gyrodactylus sp. (ON)

Ligictaluridus pricei (ON)

Octomacrum lanceatum (ON)

Pellucidhaptor nasalis (BC, NB, ON)

Pseudomurraytrema alabarrum (ON)
Pseudomurraytrema copulatum (BC,
ON)

Pseudomurraytrema muelleri (AB)

Digenea:

Allocreadium lobatum (ON)

*Amphimerus elongatus (QC)

*Amphimerus pseudofelineus (MB)

*Apophallus venustus (QC)

Azygia angusticauda (ON)

Bucephalus sp. (ON)

*Clinostomum complanatum (ON, QC)

Crepidostomum cooperi (ON, QC)

Crepidostomum farionis (QC)

Crepidostomum sp. (QC)

Creptotrema funduli (ON)

**Digenea gen. sp. (MB)

*Diplostomum spathaceum (LB, ON)

*Diplostomum spathaceum indistinctum (AB, ON)

*Diplostomum sp. (BC, MB, QC, SK)

*Ichthyocotylurus erraticus (ON)

*Ichthyocotylurus platycephalus (ON)

Lissorchis attenuatus (AB, ON, QC)

Lissorchis crassicrurum (MB)

Lissorchis simeri (ON)

*Metorchis conjunctus (MB, ON, QC, SK)

*Neascus sp. (MB, ON)

*Ornithodiplostomum ptychocheilus (ON)

*Parametorchis manitobensis (MB)

Phyllodistomum lysteri (ON, QC)

Phyllodistomum superbum (QC)

Plagioporus serotinus (QC)

Plagioporus sinitsini (ON, QC)

*Posthodiplostomum minimum (ON)

*Posthodiplostomum minimum minimum (ON)

Sanguinicola sp. (ON)

*Tetracotyle sp. (BC, MB, ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

Biacetabulum biloculoides (ON)

Biacetabulum sp. (MB, ON)

Caryophyllidea gen. sp. (AB)

*Diphyllobothrium sp. (QC)

Glaridacris catostomi (AB, BC, LB,

MB, NB, NT, ON, QC)

Glaridacris confusus (ON, QC)

Glaridacris laruei (ON, QC)

Glaridacris sp. (AB, MB)

Hunterella nodulosa (AB, BC, LB, MB, ON)

Hunterella sp. (AB)

Isoglaridacris bulbocirrus (ON)

*Ligula intestinalis (AB, MB, ON, QC, SK)

*Ligula sp. (AB, MB, QC)

Monobothrium hunteri (BC, ON)

Monobothrium sp. (BC)

*Triaenophorus nodulosus (ON)

*Triaenophorus sp. (ON)

Nematoda:

Camallanus oxycephalus (ON)

Capillaria (Capillaroides) catenta (QC)

Contracaecum sp. (LB, MB, ON, QC)

*Eustrongylides tubifex (ON)

*Eustrongylides sp. (BC, ON)

**Nematoda gen. sp. (ON, QC)

Philometra kobuleji (ON)

**Philometra sp. (ON)

Philometroides huronensis (BC, EXP, ON, OC)

ON, QC)

Philometroides nodulosa (MB, ON, QC)

Philometroides sp. (ON)
Pseudocapillaria (Pseudocapillaria)
tomentosa (ON)
*Raphidascaris acus (MB, ON, QC)
Rhabdochona canadensis (MB)
Rhabdochona cascadilla (AB, ON)
Rhabdochona ovifilamenta (AB, ON, QC)
Rhabdochona sp. (LB, ON)
*Spiroxys sp. (ON)

Acanthocephala:

Acanthocephala gen. sp. (MB) Acanthocephalus dirus (ON) Echinorhynchus lateralis (QC) Echinorhynchus leidyi (ON) Echinorhynchus salmonis (AB, MB, ON) Leptorhynchoides thecatus (ON) Neoechinorhynchus crassus (MB, ON, Neoechinorhynchus cylindratus (QC) Neoechinorhynchus distractus (MB) Neoechinorhynchus rutili (AB) *Neoechinorhynchus saginatus* (ON) Neoechinorhynchus salmonis (BC) Neoechinorhynchus strigosus (AB. LB, ON) Neoechinorhynchus venustus (AB, BC, MB, ON) Neoechinrohynchus sp. (AB, MB, ON) Octospinifer macilentus (AB, BC, ON, QC) Pomphorhynchus bulbocolli (AB, BC, MB, ON, QC) Pomphorhynchus sp. (MB)

Annelida:

Tanaorhamphus sp. (MB)

Actinobdella inequiannulata (EXP, ON, QC, SK)
Cystobranchus meyeri (ON)
Myzobdella lugubris (MB)
Myzobdella sp. (ON)
Piscicola geometra (SK)
Piscicola milneri (AB)
Placobdella montifera (MB)

Mollusca:

- *Anodonta cataracta cataracta (NS)
- *Anodonta cataracta fragilis (NS)
- *Anodonta implicata (NS)
- *Anodonta plana (ON)
- *Anodontoides ferrussacinea (ON)
- *Elliptio complanata (NS)
- *Lampsilis radiata radiata (NS)
- *Lampsilis sp. (ON)
- *Unionidae gen. sp. (MB, ON)

Branchiura:

Argulus appendiculosus (MB, ON) Argulus biramosus (AB) Argulus catostomi (ON) Argulus stizostethi (MB)

Copepoda:

Ergasilus caeruleus (LB, ON) Ergasilus nerkae (BC) Ergasilus versicolor (MB) Ergasilus sp. (AB, ON) Lernaea catostomi (SK) Lernaea cyprinacea (MB, ON)

Catostomus macrocheilus Girard largescale sucker

Monogenea:

Acolpenteron catostomi (BC)
Anonchohaptor anomalum (BC)
Gyrodactyloidea gen. sp. (BC)
Octomacrum lanceatum (BC)
Pellucidhaptor nasalis (BC)
Pseudomurraytrema copulatum (BC)

Digenea:

*Diplostomum sp. (BC)

*Ichthyocotylurus platycephalus (BC) Lissorchis attenuatus (AB, BC)

*Neascus sp. (BC)

*Posthodiplostomum minimum (BC)

*Tetracotyle sp. (BC)

*Tylodelphys scheuringi (BC)

Cestoidea:

Caryophyllidea gen. sp. (BC)
Glaridacris catostomi (AB, BC)
Glaridacris terebrans (BC)
Glaridacris vogei (BC)
Glaridacris sp. (BC)
Hunterella nodulosa (BC)
*Ligula intestinalis (BC)

Nematoda:

*Eustrongylides sp. (BC)
Philometroides huronensis (BC)
Pseudocapillaria (Pseudocapillaria)
tomentosa (BC)
Rhabdochona cascadilla (BC)
Rhabdochona zacconis (BC)
Rhabdochona sp. (BC)
*Spiroxys sp. (BC)

Acanthocephala:

Neoechinorhynchus crassus (BC) Neoechinorhynchus rutili (BC) Neoechinorhynchus saginatus (BC) Neoechinorhynchus salmonis (BC) Neoechinorhynchus venustus (BC) Octospinifer macilentus (BC) Pomphorhynchus bulbocolli (BC)

Annelida:

Actinobdella inequiannulata (BC) Hirudinea gen. sp. (BC) Piscicola salmositica (BC) Piscicola sp. (BC) Rhynchobdellidae gen. sp. (BC)

Copepoda:

Ergasilus nerkae (BC)

Catostomus platyrhynchus (Cope) mountain sucker

Nematoda:

Rhabdochona ovifilamenta (AB) Rhabdochona zacconis (BC) Rhabdochona sp. (AB)

Catostomus sp.

Cestoidea:

Glaridacris catostomi (AB)

Moxostoma anisurum (Rafinesque) silver redhorse

Monogenea:

Anonchohaptor anomalum (ON) Dactylogyrus urus (ON) Gyrodactylus spathulatus (ON)

Gyrodactylus sp. (ON)

Pellucidhaptor moxostomi (ON)

Pellucidhaptor thelostea (ON)

Pseudomurraytrema copulatum (ON)

Pseudomurraytrema sp. (ON)

Digenea:

*Diplostomum spathaceum indistinctum (ON)

*Diplostomum sp. (MB, SK)

Lissorchis attenuatus (ON)

Lissorchis crassicrurum (MB)

*Neascus sp. (MB, ON)

Sanguinicola sp. (ON)

*Tetracotyle sp. (MB)

Cestoidea:

Biacetabulum infrequens (ON)

Biacetabulum sp. (MB)

Cestoidea gen. sp. (MB)

Khawia iowensis (MB)

*Triaenophorus nodulosus (ON)

Nematoda:

Contracaecum sp. (MB)

**Hysterothylacium brachyurum (ON)

**Nematoda gen. sp. (MB, ON)

*Raphidascaris acus (MB)

Rhabdochona canadensis (MB)

Spinitectus gracilis (ON)

Acanthocephala:

Leptorhynchoides thecatus (ON)

Neoechinorhynchus crassus (MB)

Neoechinorhynchus distractus (MB)

Neoechinorhynchus venustus (MB)

Pomphorhynchus bulbocolli (MB, ON)

Annelida:

Cystobranchus verrilli (MB)

Myzobdella lugubris (MB)

Placobdella montifera (MB)

Mollusca:

*Unionidae gen. sp. (MB)

Copepoda:

Ergasilus caeruleus (ON)

Ergasilus versicolor (MB)

Moxostoma macrolepidotum (Leseuer) shorthead redhorse

Monogenea:

Anonchohaptor anomalum (ON)

Dactylogyrus duquesni (ON)

Dactylogyrus urus (ON)

Dactylogyrus sp. (ON)

Gyrodactylus sp. (ON)

Pellucidhaptor eriensis (ON)

Pellucidhaptor thelostea (ON)

Pellucidhaptor sp. (ON)

Pseudomurraytrema copulatum (ON)

Pseudomurraytrema sp. (ON)

Digenea:

*Apophallus venustus (QC)

*Diplostomum spathaceum

indistinctum (ON)

*Neascus sp. (ON)

Phyllodistomum lysteri (ON)

Phyllodistomum sp. (ON)

Plagioporus serotinus (QC)

Sanguinicola sp. (ON)

Cestoidea:

Glaridacris catostomi (ON)
*Triaenophorus nodulosus (ON)

Nematoda:

Philometroides huronensis (ON) Rhabdochona cascadilla (BC, ON) Rhabdochona milleri (ON, QC)

Acanthocephala:

Neoechinorhynchus crassus (MB, ON) Pomphorhynchus bulbocolli (MB, ON)

Annelida:

Cystobranchus verrilli (MB) Myzobdella lugubris (MB) Placobdella montifera (MB)

Branchiura:

Argulus catostomi (ON)

Copepoda:

Ergasilus caeruleus (ON) Lernaea catostomi (SK)

ORDER SILURIFORMES

FAMILY ICTALURIDAE - bullhead catfishes

Noturus flavus Rafinesque stonecat

Monogenea:

Ligictaluridus posthon (ON) Ligictaluridus pricei (ON)

Digenea:

Acetodextra amiuri (ON)
Allocreadiidae gen. sp. (ON)
Alloglossidium corti (ON)
Alloglossidium geminus (ON)
Megalonia ictaluri (ON)

Cestoidea:

Corallobothrium fimbriatum (ON) *Proteocephalus ambloplitis (ON) Proteocephalus sp. (ON)

Nematoda:

Camallanus oxycephalus (ON)
*Hysterothylacium brachyurum (ON)
Rhabdochona canadensis (AB)
Rhabdochona decaturensis (ON)
Spinitectus gracilis (ON)

Acanthocephala:

Leptorhynchoides thecatus (ON)

Copepoda:

Ergasilus versicolor (ON)

ORDER SALMONIFORMES

FAMILY ESOCIDAE - pikes

Esox lucius Linnaeus northern pike

Monogenea:

Dactylogyridae gen. sp. (AB) Gyrodactyloidea gen. sp. (ON) Gyrodactylus lucii (ON) Gyrodactylus sp. (ON) Tetraonchus loftusi (ON) Tetraonchus monenteron (AB, LB, MB, ON, YT)

Digenea:

Allocreadium isoporum (YT) Allocreadium lobatum (YT) *Apophallus venustus (QC) Azygia angusticauda (ON) Azygia longa (MB, ON, QC) Bunodera luciopercae (LB) *Centrovarium lobotes (MB, ON) Centrovarium lobotes (MB, ON, QC) *Clinostomum complanatum (ON, QC) *Crassiphialia bulboglossa (QC) Crepidostomum cooperi (LB) Crepidostomum farionis (MB) Crepidostomum metoecus (YT) *Digenea gen. sp. (AB, MB, QC) Digenea gen. sp. (AB, MB) *Diplostomum spathaceum (ON, NT)

*Microphallus opacus (ON, QC)

*Diplostomum sp. (AB, MB, ON, QC,

*Neascus sp. (MB)

*Opisthorchis sp. (ON)

Phyllodistomum folium (QC)

Phyllodistomum superbum (QC)

Phyllodistomum sp. (ON)

*Posthodiplostomum minimum (ON)

*Tetracotyle parvula (QC)

*Tetracotyle sp. (MB, ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

Bothriocephalus cuspidatus (AB. HBD, MB, ON) Bothriocephalus sp. (MB) Cestoidea gen. sp. (AB, MB, QC) Cyathocephalus truncatus (MB) *Diphyllobothrium latum (AB, MB, NT, ON, QC, SK) *Diphyllobothrium sp. (AB, MB, NT) Eubothrium sp. (AB, MB) Glaridacris catostomi (MB) *Ligula sp. (MB) Proteocephalus longicollis (YT) Proteocephalus pinguis (AB, BC, LB, MB, NT, ON, QC) Proteocephalus stizostethi (ON, QC) Proteocephalus sp. (AB, LB, MB, QC) *Schistocephalus solidus (AB) *Triaenophorus crassus (AB) Triaenophorus crassus (AB, BC, HBD, LB, MB, NT, ON, QC, SK, YT) *Triaenophorus nodulosus (MB) Triaenophorus nodulosus (AB, CA, MB, NT, ON, SK, YT) *Triaenophorus sp. (HBD) Triaenophorus sp. (AB, MB, NT)

Nematoda:

Camallanus oxycephalus (ON)
Camallanus sp. (LB)
*Contracaecum sp. (MB)
Cystidicola sp. (AB)
Hysterothylacium brachyurum (MB, ON, QC)
**Nematoda gen. sp. (AB, MB)
**Philonema sp. (NT)
*Raphidascaris acus (MB, ON, YT)
Raphidascaris acus (AB, EXP, LB,

MB, NT, ON, QC, SK, YT)

**Raphidascaris sp. (AB, LB, MB)
Rhabdochona canadensis (AB, LB, QC)
Spinitectus carolini (ON)
Spinitectus gracilis (MB, ON)

Acanthocephala:

Acanthocephala gen. sp. (MB)
Acanthocephalus dirus (ON)
Acanthocephalus sp. (MB)
Echinorhynchus lateralis (LB, ON)
Echinorhynchus leidyi (MB, NT)
Echinorhynchus salmonis (AB, MB, NT, ON)
Leptorhynchoides thecatus (ON, QC)
Neoechinorhynchus cylindratus (ON)
Neoechinorhynchus rutili (BC, ON, YT)
Neoechinorhynchus strigosus (AB)

Neoechinorhynchus strigosus (AB) Neoechinorhyhchus tenellus (ON) Neoechinorhynchus tumidus (YT) Neoechinorhynchus sp. (ON) Pomphorhynchus bulbocolli (MB, ON)

Annelida:

Desserobdella phalera (EXP, ON) Illinobdella sp. (ON) Mollibdella grandis (ON) Myzoldella sp. (ON) Piscicola geometra (SK) Piscicola milneri (MB, NT, YT) Placobdella montifera (MB)

Mollusca:

*Unionidae gen. sp. (MB, ON)

Branchiura:

Argulus appendiculosus (MB) Argulus stizostethi (MB) Argulus sp. (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus luciopercarum (MB) Salmincola extensus (MB)

FAMILY SALMONIDAE - trouts

Coregonus artedii Lesueur cisco or lake herring

Monogenea:

Discocotyle sagittata (AB, MB, ON)

Digenea:

Crepidostomum cooperi (CA, ON) Crepidostomum farionis (AB, CA, MB, ON)

Digenea gen. sp. (AB)

- *Diplostomum spathaceum (CA, MB, ON)
- *Diplostomum spathaceum indistinctum (MB, ON)
- *Diplostomum sp. (ON)
- *Ichthyocotylurus erraticus (AB, MB, ON)
- *Neascus sp. (MB)
 Phyllodistomum sp. (ON)
 *Tetracotyle sp. (MB, ON)

Cestoidea:

Bothrimonas sturionis (MB) Bothriocephalidae gen. sp. (ON) *Cestoidea gen. sp. (ON)

Cestoidea gen. sp. (MB)

Cyathocephalus truncatus (AB, MB, ON)

- *Diphyllobothrium dendriticum (MB, ON, QC)
- *Diphyllobothrium ditremum (ON)
- *Diphyllobothrium laruei (ON)
- *Diphyllobothrium sp. (AB, MB, NT, ON)

Eubothrium crassum (NT, ON)

Eubothrium salvelini (AB, ON)

Eubothrium sp. (YT)

Proteocephalus coregoni (MB, ON)

Proteocephalus filicollis (MB, NT, ON)

Proteocephalus longicollis (MB, NT, ON)

Proteocephalus pearsei (ON)

Proteocephalus sp. (AB, BC, LB, MB, NT, ON, QC)

*Triaenophorus crassus (AB, BC, CA, EXP, MB, NT, ON, QC, SK)

Triaenophorus nodulosus (AB, MB)

*Triaenophorus sp. (AB, MB, QC, SK)

Nematoda:

Cystidicola farionis (AB, MB, ON)

Cystidicola serrata (ON)

Cystidicola sp. (AB, ON)

Hysterothylacium brachyurum (MB)

- **Nematoda gen. sp. (MB)
- **Philometra sp. (ON)

Philonema agubernaculum (AB, BC)

- **Philonema oncorhynchi (BC, NS, ON)
- **Philonema sp. (AB, NT)

Raphidascaris acus (MB)

**Raphidascaris sp. (MB)

Spinitectus gracilis (MB, ON)

Sterliadochona ephemeridarum (ON)

Acanthocephala:

Echinorhynchus lateralis (ON)
Echinorhynchus leidyi (MB, NT)
Echinorhynchus salmonis (AB, MB, NT, ON)
Echinorhynchus sp. (NT)
Neoechinorhynchus rutili (SK)
Neoechinorhynchus tumidus (ON, SK)
Neoechinorhynchus sp. (ON)
Pomphorhynchus bulbocolli (AB,

Annelida:

MB)

Piscicola geometra (QC, SK) Piscicola milneri (MB) Piscicola punctata (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus appendiculosus (MB) Argulus stizostethi (MB, ON, SK) Argulus sp. (ON)

Copepoda:

Ergasilus auritus (AB)
Ergasilus caeruleus (ON)
Ergasilus luciopercarum (MB)
Ergasilus nerkae (AB, BC, MB)
Ergasilus sp. (AB, ON)
Salmincola corpulentus (NT, ON, QC)
Salmincola extensus (AB, MB, ON)

Coregonus clupeaformis (Mitchill) lake whitefish

Monogenea:

Discocotyle sagittata (AB, LB, MB, NF, ON, YT)
Tetraonchus variabilis (BC)

Digenea:

Crepidostomum auriculatum (AB)
Crepidostomum cooperi (AB, LB,
ON)
Crepidostomum farionis (AB, BC,
LB, MB, ON, YT)
Crepidostomum metoecus (YT)
Crepidostomum sp. (AB)
Digenea gen. sp. (ON)
*Diplostomum baeri bucculentum
(BC, MB)
*Diplostomum spathaceum (AB, LB,
MB, ON, YT)

*Diplostomum spathaceum indistinctum (MB, ON)

*Ichthyocotylurus erraticus (AB, MB, ON)

*Neascus sp. (MB)

Phyllodistomum coregoni (AB, LB, ON)

Phyllodistomum umblae (LB)

*Tetracotyle sp. (AB, BC, YT)

*Tylodelphys scheuringi (BC)

Cestoidea:

Bothrimonas sturionis (MB, NB, NT)
*Bothriocephalus sp. (AB, NT, ON)
Cestoidea gen. sp. (AB, BC, MB, NT, ON, SK, YT)
Cyathocephalus truncatus (AB, MB, NT, ON, YT)

*Diphyllobothrium dendriticum (AB. BC, MB) *Diphyllobothrium sp. (AB, BC, LB, MB, NT, ON, YT) Eubothrium crassum (ON) Eubothrium salvelini (AB, ON, YT) Eubothrium sp. (LB, NT) **Ligula sp. (MB) Proteocephalus coregoni (MB, NT) Proteocephalus filicollis (MB) Proteocephalus longicollis (AB, BC, LB, MB, ON, SK, YT) Proteocephalus singularis (AB, MB) Proteocephalus sp. (AB, BC, LB, MB, NT, ON, QC, SK) *Schistocephalus sp. (ON) *Triaenophorus crassus (AB, CA, EXP, LB, MB, NT, ON, QC, SK, YT) *Triaenophorus sp. (AB, MB, NT, QC, SK)

Nematoda:

*Contracaecum sp. (AB) Cystidicola farionis (AB, BC, MB, NT, ON, QC, SK, YT) Cystidicola serrata (ON) Cystidicola stigmatura (AB, MB, NT, ON, SK) Cystidicola sp. (AB, BC, MB, ON) **Hysterothylacium sp. (BC) **Nematoda gen. sp. (AB, NB, NT, ON, SK) **Philometra sp. (ON) Philonema agubernaculum (AB, BC, LB, NT) **Philonema oncorhynchi (BC, NS, ON) **Philonema sp. (BC) Pseudocapillaria (Ichthyocapillaria) salvelini (LB, ON)

Pseudocapillaria (Pseudocapillaria) tomentosa (ON)

*Raphidascaris acus (AB, ON, YT) Raphidascaris acus (AB, LB, MB, QC)

**Raphidascaris sp. (AB, LB, MB) Rhabdochona sp. (ON) Spinitectus gracilis (MB, ON) Sterliadochona ephemeridarum (BC, LB, ON)

Truttaedacnitis truttae (BC)

Acanthocephala:

Acanthocephala gen. sp. (AB, MB)

Acanthocephalus dirus (ON)

Acanthocephalus sp. (MB)

Echinorhynchus gadi (NT)

Echinorhynchus lateralis (LB, NF, ON)

Echinorhynchus leidyi (EXP, MB, NT, ON, SK)

Echinorhynchus salmonis (AB, BC, MB, NT, ON)

Echinorhynchus sp. (NT, ON)

Leptorhynchoides thecatus (ON)
Neoechinorhynchus cylindratus (BC, MB)

Neoechinorhynchus rutili (BC)

Neoechinorhynchus salmonis (BC)

Neoechinorhynchus tumidus (AB, NT, ON, SK, YT)

Neoechinorhynchus sp. (AB)

Pomphorhynchus bulbocolli (AB, BC, MB, ON)

Pomphorhynchus sp. (MB)

Annelida:

Piscicola geometra (QC, SK) Piscicola milneri (MB, ON, YT) Piscicola punctata (ON)

Mollusca:

*Unionidae gen. sp. (AB, ON)

Branchiura:

Argulus biramosus (AB) Argulus stizostethi (MB, SK)

Copepoda:

Achtheres pimelodi (ON)
Coregonicola orientalis (NT)
Coregonicola sp. (NT)
Ergasilus auritus (AB)
Ergasilus caeruleus (ON)
Ergasilus elongatus (ON)
Ergasilus nerkae (AB, BC, MB)
Ergasilus sp. (AB, ON)
Salmincola coregonorum (LB)
Salmincola corpulentus (AB, LB, MB, NT, ON)
Salmincola extensus (AB, LB, MB, ON, YT)
Salmincola thymalli (BC)
Samincola sp. (MB)

Arachnoidea:

*Unionicola sp. (BC)

Coregonus zenithicus (Jordan and Evermann) shortjaw cisco

Cestoidea:

Cyathocephalus truncatus (AB, MB, ON)

- *Diphyllobothrium dendriticum (ON)
- *Diphyllobothrium latum (ON)
- *Diphyllobothrium sp. (ON)

Proteocephalus longicollis (MB, ON, SK)

- *Triaenophorus crassus (AB, MB, ON, SK)
- *Triaenophorus sp. (AB, MB, SK)

Coregonus sp.

Cestoidea:

Bothriocephalus cuspidatus (HBD)
*Diphyllobothrium sp. (NT)
Eubothrium crassum (NT)
Proteocephalus coregoni (HBD, MB)
Proteocephalus longicollis (NT)
*Triaenophorus crassus (AB, MB, NT, ON, SK)
*Triaenophorus sp. (AB, HBD)

Nematoda:

Cystidicola farionis (ON) Philonema sp. (NT)

Acanthocephala:

Echinorhynchus salmonis (NT)

Branchiura:

Argulus stizostethi (ON)

Copepoda:

Salmincola corpulentus (NT, ON, QC)

Oncorhynchus clarki (Richardson) cutthroat trout

Monogenea:

Gyrodactyloidea gen. sp. (BC) Gyrodactylus salmonis (BC, NS) Gyrodactylus sp. (BC)

Digenea:

*Clinostomum complanatum (BC)
*Clinostomum sp. (BC)
Crepidostomum farionis (AB, BC)
Crepidostomum metoecus (BC)
*Diplostomum sp. (BC)
*Neascus sp. (BC)

Cestoidea:

*Diphyllobothrium dendriticum (AB)
*Diphyllobothrium sp. (AB, BC)
Eubothrium salvelini (BC)
Proteocephalus longicollis (BC)

Nematoda:

*Contracaecum sp. (BC)
*Eustrongylides sp. (BC)
**Philonema oncorhynchi (BC, NS, ON)
**Philonema sp. (BC)
Pseudocapillaria (Pseudocapillaria)
tomentosa (BC)
Rhabdochona cascarilla (BC)
Rhabdochona milleri (AB, BC)
Rhabdochona sp. (AB)
Salvelinema walkeri (BC)
Sterliadochona ephemeridarum (BC)
Truttaedacnitis truttae (BC)

Acanthocephala:

Neoechinorhynchus rutili (BC) Pomphorhynchus bulbocolli (BC)

Copepoda:

Salmincola californiensis (BC) Salmincola edwardsi (BC)

Oncorhynchus kisutch (Walbaum)
coho salmon

Monogenea:

Discocotyle sagittata (AB) Gyrodactyloidea gen. sp. (BC) Gyrodactylus salmonis (BC) Monogenea gen. sp. (BC) Tetraonchus alaskensis (BC)

Digenea:

Crepidostomum farionis (AB, BC)

Crepidostomum metoecus (BC)

- *Diplostomum spathaceum (ON)
- *Diplostomum sp. (BC)
- *Ichthyocotylurus platycephalus (BC)
- *Neascus sp. (BC)
- *Strigeidae gen. sp. (BC)

Cestoidea:

Cyathocephalus truncatus (AB)

*Diphyllobothrium sp. (AB, BC)

Eubothrium salvelini (AB, BC)

Eubothrium sp. (AB)

- *Phyllobothrium caudatum (BC)
- *Phyllobothrium sp. (BC)

Proteocephalus longicollis (BC)

- **Proteocephalus sp. (AB, BC)
- *Schistocephalus solidus (AB)
- *Triaenophorus nodulosus (AB)

Nematoda:

Camallanus oxycephalus (ON) Cystidicola farionis (AB, ON) *Eustrongylides sp. (BC)

**Nematoda gen. sp. (BC)

Philonema agubernaculum (AB, BC)

**Philonema oncorhynchi (BC)

Pseudocapillaria (Ichthyocapillaria)

salvelini (BC, ON)

Pseudocapillaria (Pseudocapillaria)

tomentosa (BC)

Rhabdochona kisutchi (BC)

Rhabdochona sp. (BC)

Salvelinema walkeri (BC)

Sterliadochona ephemeridarum (BC, ON)

Acanthocephala:

Acanthocephalus dirus (ON)

Echinorhynchus lateralis (ON)

Echinorhynchus salmonis (AB, ON)

Neoechinorhynchus rutili (BC)

Neoechinorhynchus saginatus (BC)

Neoechinorhynchus salmonis (BC)

Neoechinorhynchus strigosus (AB)

Pomphorhynchus bulbocolli (AB,

BC)

Rhadinorhynchus trachuri (BC)

Annelida:

Piscicola salmositica

Copepoda:

Ergasilus auritus (AB)

Ergasilus nerkae (AB, BC)

Salmincola californiensis (BC)

Oncorhynchus mykiss (Richardson)

rainbow trout

Monogenea:

Discocotyle sagittata (ON) Gyrodactyloidea gen. sp. (BC) Gyrodactylus avalonia (NS) Gyrodactylus colemanensis (BC, EXP, NF, NS, ON) Gyrodactylus salmonis (BC, EXP, NS) Gyrodactylus sp. (AB, BC, NS) Monogenea gen. sp. (AB) Tetraonchus variabilis (BC)

Digenea:

Allocreadium lobatum (BC) Bunodera luciopercae (AB, BC) *Clinostomum complanatum (BC, MB) *Clinostomum sp. (BC, MB) Crepidostomum farionis (AB, BC, MB, NF, NT, QC) Crepidostomum sp. (AB) Digenea gen. sp. (AB) *Diplostomum baeri bucculentum (BC) *Diplostomum spathaceum (BC) *Diplostomum sp. (BC, MB, ON) *Ichthyocotylurus erraticus (ON) *Neascus sp. (BC) Phyllodistomum umblae (BC, ON) Phyllodistomum sp. (BC) *Tetracotyle sp. (BC, NF, ON) *Tylodelphys scheuringi (BC, MB)

Cestoidea:

Cestoidea gen. sp. (BC) Cyathocephalus truncatus (BC) *Diphyllobothrium dendriticum (BC, QC) *Diphyllobothrium ditremum (BC,

**Diphyllobothrium latum (AB)

*Diphyllobothrium sp. (AB, BC, NF,

ON) Eubothrium crassum (ON) Eubothrium salvelini (AB, BC, NF) Eubothrium sp. (AB) *Paradilepis simoni (BC) Proteocephalus longicollis (BC) Proteocephalus sp. (BC, ON, SK) *Schistocephalus sp. (BC) *Triaenophorus crassus (EXP, MB)

Nematoda:

Capillariidae gen. sp. (BC) Capillospirura pseudoargumentosus (EXP, ON)*Contracaecum sp. (ON) *Cosmocephalus obvelatus (EXP, ON) Cystidicola farionis (AB, BC, EXP, NT, ON, QC, YT) Cystidicola stigmatura (AB, BC) Cystidicola sp. (BC, ON) *Eustrongylides sp. (BC) Haplonema hamulatum (BC) **Hysterothylacium sp. (BC) **Nematoda gen. sp. (AB, BC) Philonema agubernaculum (AB, BC, NF, NT) *Philonema oncorhynchi (BC) Philonema oncorhynchi (BC, EXP) **Philonema sp. (BC) Pseudocapillaria (Ichthyocapillaria) salvelini (ON) Pseudocapillaria (Pseudocapillaria) tomentosa (BC) Raphidascaris acus (EXP, ON, QC) Rhabdochona canadensis (AB) Rhabdochona cascadilla (BC) Rhabdochona kisutchi (BC) Rhabdochona milleri (AB, BC) Rhabdochona sp. (BC) Spiruridae gen. sp. (BC) Sterliadochona ephemeridarum (BC,

ON)

Truttaedacnitis truttae (AB, BC)

Acanthocephala:

Acanthocephala gen. sp. (NF)
Acanthocephalus dirus (ON)
Echinorhynchus lateralis (NF, ON)
Echinorhynchus leidyi (EXP, ON)
Echinorhynchus salmonis (ON)
Neoechinorhynchus rutili (BC, MB, ON)
Neoechinorhynchus saginatus (BC)
Neoechinorhynchus salmonis (BC)
Neoechinorhynchus sp. (BC)
Pomphorhynchus bulbocolli (AB,

Annelida:

BC, MB, ON)

Desserobdella phalera (EXP, ON) Illinobdella sp. (BC) Myzobdella sp. (BC) Piscicola milneri (AB)

Mollusca:

*Unionidae gen. sp. (BC)

Copepoda:

Copepoda gen. sp. (NF) Ergasilus nerkae (AB, BC, NF) Salmincola californensis (BC) Salmincola edwardsii (BC, NF)

Arachnoidea:

*Unionicola sp. (BC)

Prosopium coulteri (Eigenmann and

Eigenmann) pygmy whitefish

Monogenea:

Tetraonchus variabilis (BC)

Nematoda:

Cystidicola sp. (BC) Rhabdochona milleri (BC)

Acanthocephala:

Neoechinorhynchus rutili (BC)

Prosopium cylindraceum (Pallas) round whitefish

Monogenea:

Discocotyle sagittata (LB, ON, YT) Gyrodactyloidea gen. sp. (BC) Tetraonchus loftusi (ON) Tetraonchus variabilis (LB, ON, YT)

Digenea:

*Apophallus brevis (ON)
Bunodera luciopercae (LB)
Crepidostomum cooperi (ON)
Crepidostomum farionis (BC, NT, ON, QC, YT)
*Diplostomum spathaceum (LB, ON, YT)

*Diplostomum sp. (BC, ON, QC) Ichthyocotylurus erraticus (ON) Phyllodistomum coregoni (LB) Phyllodistomum sp. (ON) *Tetracotyle sp. (ON, YT)

Cestoidea:

Cyathocephalus truncatus (ON, YT) *Diphyllobothrium sp. (NS, YT) Eubothrium salvelini (LB, NF, ON, YT) Eubothrium sp. (LB)

Proteocephalus longicollis (CA, ON, YT)

Proteocephalus sp. (AB, BC, LB)

*Triaenophorus crassus (AB, MB, NT, ON, QC, SK, YT)

*Triaenophorus nodulosus (ON)

Nematoda:

Cystidicola farionis (AB, BC, NT, ON, QC, YT)

Cystidicola stigmatura (BC, ON, SK)

*Eustrongylides sp. (BC)

**Nematoda gen. sp. (LB)

**Philometra sp. (ON)

Philonema agubernaculum (LB)

**Philonema sp. (BC)

Pseudocapillaria (Ichthyocapillaria) salvelini (LB, ON, YT)

Spinitectus gracilis (ON)

Sterliadochona ephemeridarum (BC)

Truttaedacnitis truttae (BC)

Acanthocephala:

Acanthocephalus dirus (ON) Echinorhynchus lateralis (LB, ON) Echinorhynchus salmonis (ON) Neoechinorhynchus tumidus (ON, YT) Pomphorhynchus bulbocolli (ON)

Annelida:

Piscicola milneri (ON, YT)

Mollusca:

*Unionidae gen. sp. (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus luciopercarum (LB) Ergasilus sp. (ON) Salmincola corpulentus (ON) Salmincola extensus (ON) Salmincola thymalli (LB, ON) Salmincola sp. (ON)

Prosopium williamsoni (Girard) mountain whitefish

Monogenea:

Discocotyle sagittata (BC) Gyrodactyloidea gen. sp. (BC) Tetraonchus variabilis (BC)

Digenea:

Allocreadium lobatum (BC) Crepidostomum farionis (AB, BC, MB)

*Diplostomum baeri bucculentum (BC)

*Diplostomum spathaceum (BC)

*Diplostomum sp. (BC)

*Ichthyocotylurus platycephalus (BC)

*Strigeidae gen. sp. (BC, NB)

*Tetracotyle sp. (BC, ON)

*Tylodelphys scheuringi (BC)

Cestoidea:

*Diphyllobothrium dendriticum (BC)

*Diphyllobothrium sp. (AB, BC) Eubothrium salvelini (AB, BC, NT) Eubothrium sp. (BC)

*Ligula intestinalis (BC)

*Paradilepis simoni (BC)

Proteocephalus longicollis (BC)

Proteocephalus sp. (AB, BC, ON)

*Schistocephalus sp. (BC)

*Triaenophorus crassus (AB, NT)

Nematoda:

*Anisakidae gen. sp. (BC)

Cystidicola farionis (BC, ON)

Cystidicola stigmatura (AB, BC, ON)

Cystidicola sp. (AB)

*Eustrongylides sp. (BC)

Haplonema hamulatum (BC)

**Hysterothylacium sp. (BC)

**Nematoda gen. sp. (AB, BC)

Philonema agubernaculum (AB, BC,

NT)

**Philonema sp. (BC)

 $Pseudocapillaria\ (Pseudocapillaria)$

tomentosa (BC)

Rhabdochona cascadilla (BC)

Rhabdochona kisutchi (BC)

Rhabdochona milleri (BC)

Rhabdochona sp. (BC)

Sterliadochona ephemeridarum (BC)

Truttaedacnitis truttae (AB, BC)

Acanthocephala:

Neoechinorhynchus rutili (BC)

Neoechinorhynchus saginatus (BC)

Neoechinorhynchus salmonis (BC)

Neoechinorhynchus tumidus (YT)

Neoechinorhynchus sp. (BC)

Pomphorhynchus bulbocolli (BC)

Annelida:

Hirudinea gen. sp. (BC) *Piscicola* sp. (BC)

Rhynchobdellidae gen. sp. (BC)

Copepoda:

Achtheres sp. (AB)

Coregonicola sp. (AB)

Ergasilus nerkae (BC)

Salmincola californiensis (BC)

Salmincola edwardsii (BC)

Salmincola extensus (BC)

Salmincola thymalli (BC)

Salmincola sp. (BC)

Arachnoidea:

*Unionicola sp. (BC)

Prosopium sp.

Cestoidea:

*Triaenophorus crassus (AB)

Copepoda:

Salmincola thymalli (NT)

Salmon trutta Linnaeus brown trout

Monogenea:

Discocotyle sagittata (NF, ON) Gyrodactylus colemanensis (ON)

Digenea:

*Apophallus brevis (NF, QC) Crepidostomum farionis (NF)

Cestoidea:

Bothrimonas sturionis (LB, NB)

*Diphyllobothrium sp. (AB, NF)

Eubothrium salvelini (NF)

Proteocephalus parallacticus (ON)

Nematoda:

Cystidicola farionis (ON) Sterliadochona ephemeridarum (NF, ON)

Acanthocephala:

Acanthocephalus dirus (ON) Echinorhynchus lateralis (NF) Echinorhynchus salmonis (ON)

Annelida:

Johanssonia arctica (EXP)

Copepoda:

Ergasilus sp. (NF)

Salvelinus confluentus (Suckley) bull charr

Cestoidea:

Cyathocephalus truncatus (AB) Eubothrium salvelini (AB) Glaridacris terebrans (AB) Cestoidea gen. sp. (AB)

Salvelinus fontinalis (Mitchill)

brook charr

Monogenea:

Discocotyle sagittata (LB, NF, NS, ON)

Discocotyle sp. (QC)

Gyrodactylus avalonia (NF)

Gyrodactylus calliaratus (NB)

Gyrodactylus colemanensis (EXP, NB, NS, ON)

Gyrodactylus perlucides (NB)

Gyrodactylus salmonis (EXP, BC, NB, NS)

Gyrodactylus sp. (LB, NS)

Tetraonchus variabilis (LB)

Digenea:

Allocreadiidae gen. sp. (LB, NF) *Apophallus brevis (NB, NF, ON, QC) *Apophallus imperator (NB, NF, NS, ON, OC) *Apophallus sp. (ON, QC) Azygia longa (NB, NF) Bunodera luciopercae (AB, BC, LB, NF, ON) *Clinostomum complanatum (ON, QC) Crepidostomum cooperi (NF, QC) Crepidostomum cornutum (NS, QC) Crepidostomum farionis (AB, BC, LB, NB, NF, NS, ON, QC) Crepidostomum sp. (QC) *Cryptocotyle lingua (NB) *Digenea gen. sp. (AB, ON, QC) Digenea gen. sp. (ON, QC) *Diplostomum spathaceum (CA, EXP, LB, NS, ON, QC) *Diplostomum sp. (BC, NB, NF, NS, ON, QC) Gorgoderidae gen. sp. (NF) *Heterophyidae gen. sp. (NF) *Ichthyocotylurus erraticus (ON) *Metorchis conjunctus (QC) *Neascus sp. (BC, ON)

Phyllodistomum superbum (QC)
Phyllodistomum umblae (LB, NF, ON, QC)

Pleurogenes sp. (QC)

Posthodiplostomum minimum (ON)

Ptychogonimus fontanus (QC)

*Strigeidae gen. sp. (ON)

*Tetracotyle sp. (BC, NF, ON, QC)

Cestoidea:

Bothrimonus sturionis (LB, MB, NT)

Cestoidea gen. sp. (NS, ON, QC) Cyathocephalus truncatus (CA)

*Diphyllobothriidae gen. sp. (QC)

*Diphyllobothrium dendriticum (BC, QC)

*Diphyllobothrium ditremum (BC, CA, QC)

*Diphyllobothrium sp. (AB, BC, LB, MB, NB, NF, NS, NT, ON, QC)

Eubothrium crassum (NB)

Eubothrium salvelini (AB, BC, HBD,

LB, MB, NF, ON, QC)
Eubothrium sp. (LB, NF, QC)

*Ligula intestinalis (BC, QC)

*Ligula sp. (ON, QC)

Proteocephalidae gen. sp. (QC)

Proteocephalus ambloplitis (ON)

Proteocephalus longicollis (LB, QC)

Proteocephalus parallacticus (AB, ON, QC)

Proteocephalus sp. (AB, LB, NB, ON, QC, SK)

*Schistocephalus solidus (NF, QC) Tetraphyllidea gen. sp. (NB)

Nematoda:

Contracaecum sp. (LB, QC) Cystidicola farionis (ON, QC) Cystidicola stigmatura (MB, ON) *Eustrongylides sp. (NB)

**Hysterothylacium brachyurum (ON)

**Hysterothylacium sp. (QC)

**Nematoda gen. sp. (LB, NS, ON, QC)

**Philometra cylindracea (QC)

**Philometra sp. (QC)

Philonema agubernaculum (LB, NF, NT, QC)

**Philonema oncorhynchi (BC, NS, ON)

**Philonema sp. (LB, QC)

Pseudocapillaria (Ichthyocapillaria) salvelini (LB, NB, NF, QC)

Pseudocapillaria (Pseudocapillaria) tomentosa (BC, ON)

Raphidascaris acus (EXP, ON, QC)

**Raphidascaris sp. (LB, NB)

Rhabdochona cascadilla (AB)

Rhabdochona milleri (AB, BC)

Rhabdochona ovifilementa (QC)

Rhabdochona sp. (AB, BC)

*Seuratinae gen. sp. (QC) Sterliadochona ephemeridarum (BC,

LB, NB, NF, NS, ON, QC)

Truttaedacnitis truttae (BC, NB)

Truttaedacnitis sp. (BC)

Acanthocephala:

Acanthocephala gen. sp. (NF, ON, QC)

Acanthocephalus dirus (ON)

Echinorhynchus gadi (QC)

Echinorhynchus lateralis (LB, NB, NS, ON, QC)

Echinorhynchus leidyi (QC)

Echinorhynchus salmonis (CA, ON)

Echinorhynchus sp. (LB, QC)

Leptorhynchoides thecatus (ON)

Neoechinorhynchus cylindratus (QC) Neoechinorhynchus rutili (BC, ON) Neoechinorhynchus sp. (NB) Pomphorhynchus bulbocolli (QC)

Annelida:

Hirudinea gen. sp. (NF)

Piscicola milneri (AB, ON)

Piscicola punctata (AB, NB, ON, QC)

Mollusca:

*Anodonta cataracta (NF)
*Unionidae gen. sp. (NF, ON, QC)

Branchiura:

Argulus stizostethi (NF, NS)

Copepoda:

Ergasilus auritus (QC)
Ergasilus labracis (NB)
Ergasilus luciopercarum (NF)
Ergasilus sp. (NF)
Salmincola carpionis (NB, QC)
Salmincola edwardsii (BC, EXP, LB, MB, NB, NF, NS, ON, PE, QC)
Salmincola sp. (MB, NF, QC)

Salvelinus fontinalis (Mitchill) X Salvelinus namaycush (Walbaum) splake

Monogenea:

Discocotyle sagittata (ON)
Gyrodactylus colemanensis (NF, NS, ON)

Digenea:

*Diplostomum spathaceum (ON)

*Diplostomum spathaceum indistinctum (ON)

*Ichthyocotylurus erraticus (MB, ON)

*Tetracotyle sp. (ON)

Cestoidea:

Cyathocephalus truncatus (ON)
*Diphyllobothrium sp. (AB, BC, ON)
*Eubothrium salvelini (ON)
Proteocephalus parallacticus (ON)
Proteocephalus sp. (ON, QC)
*Triaenophorus nodulosus (ON)

Nematoda:

Cystidicola farionis (ON)
Cystidicola stigmatura (ON)
**Hysterothylacium brachyurum (ON)
Pseudocapillaria (Ichthyocapillaria)
salvelini (ON)
Rhabdochona sp. (ON)
Spinitectus gracilis (ON)

Acanthocephala:

Acanthocephalus dirus (ON) Echinorhynchus salmonis (ON) Neoechinorhynchus tumidus (ON) Pomphorhynchus bulbocolli (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus siscowet (ON)

Salvelinus malma (Walbaum) Dolly Varden

Monogenea:

Discocotyle sagittata (BC) Gyrodactyloidea gen. sp. (BC) Tetraonchus alaskensis (BC) Tetraonchus variabilis (BC)

Digenea:

Bunodera luciopercae (BC)
Crepidostomum farionis (BC)
*Diplostomum baeri bucculentum
(BC)
*Diplostomum spathaceum (BC)
*Diplostomum sp. (BC)
*Neascus sp. (BC)
Prosorhynchoides ozakii (BC)
*Tetracotyle sp. (BC)

Cestoidea:

Bothriocephalus cuspidatus (AB, MB)
Cestoidea gen. sp. (AB, BC)
Cyathocephalus truncatus (AB, BC)
*Diphyllobothrium dendriticum (BC, QC)
*Diphyllobothrium ditremum (BC, QC)
*Diphyllobothrium latum (AB, BC)
*Diphyllobothrium sp. (BC)
Eubothrium salvelini (AB, BC)
Glaridacris terebrans (AB)
*Phyllobothrium sp. (BC)
Proteocephalus longicollis (BC)
Proteocephalus sp. (AB, BC, ON)

Nematoda:

*Contracaecum sp. (BC)
Cystidicola farionis (BC, NT, ON, QC, YT)

Cystidicola stigmatura (BC) Cystidicola sp. (BC, ON) *Eustrongylides sp. (BC) Haplonema hamulatum (BC) Hysterothylacium brachyurum (BC) *Hysterothylacium sp. (BC) Nematoda gen. sp. (AB, BC) Philonema agubernaculum (BC, NT) **Philonema oncorhynchi (BC) **Philonema sp. (BC) Pseudocapillaria (Ichthyocapillaria) salvelini (BC) Pseudocapillaria (Pseudocapillaria) tomentosa (BC) Rhabdochona canadensis (BC) Rhabdochona kisutchi (BC) Rhabdochona milleri (AB, BC) Rhabdochona sp. (BC) Salvelinema walkeri (BC) Sterliadochona ephemeridarum (BC) Truttaedacnitis truttae (BC)

Acanthocephala:

Echinorhynchus leidyi (NT, ON) Echinorhynchus salmonis (NT) Neoechinorhynchus rutili (BC) Neoechinorhynchus salmonis (BC, NT)

Copepoda:

Salmincola californensis (BC, NT) Salmincola carpionis (NT) Salmincola edwardsii (BC, NF, ON) Salmincola siscowet (NT)

Salvelinus namaycush (Walbaum) lake char

Monogenea:

Discocotyle sagittata (AB, LB, ON, YT)
Gyrodactylus colemanensis (BC, NF, NS, ON)
Tetraonchus monenteron (LB)

Digenea:

*Apophallus sp. (ON) Azygia angusticauda (ON) Azygia longa (ON) Bunodera luciopercae (BC, LB) Crepidostomum cooperi (LB) Crepidostomum farionis (AB, BC, LB, NT, ON, YT) Crepidostomum metoecus (YT) *Diplostomum baeri bucculentum (BC) *Diplostomum spathaceum (AB, LB, ON, YT) *Diplostomum sp. (BC, ON, QC) Phyllodistomum umblae (LB) Phyllodistomum sp. (BC) *Tetracotyle sp. (BC, YT)

Cestoidea:

Bothrimonus sturionis (NB, NT)
Bothriocephalus cuspidatus (AB, MB)
Bothriocephalus sp. (AB, MB)
*Cestoidea gen. sp. (AB, NS, NT, ON)
Cyathocephalus truncatus (AB, NT, YT)
*Diphyllobothrium dendriticum (BC, MB, NT, ON, QC)
*Diphyllobothrium ditremum (BC, CA, NT, QC)
*Diphyllobothrium latum (MB)
*Diphyllobothrium sp. (AB, BC, LB, MB, NT, ON, YT)

Eubothrium crassum (LB, NT, ON) Eubothrium salvelini (AB, BC, LB, MB, NB, NF, NT, ON, QC, SK, YT) Eubothrium sp. (LB, MB, QC) Glaridacris catostomi (SK) Proteocephalidae gen. sp. (QC) Proteocephalus ambloplitis (ON) Proteocephalus coregoni (MB) Proteocephalus longicollis (LB, NT, ON, YT) Proteocephalus parallacticus (AB, ON) Proteocephalus sp. (AB, BC, LB, NT, ON, QC, YT) *Schistocephalus solidus (NT, SK) *Triaenophorus crassus (AB, LB, MB, NT, ON, SK, YT) *Triaenophorus nodulosus (AB, MB, NT) *Triaenophorus sp. (AB, MB, NT)

Nematoda:

Cystidicola farionis (AB, BC, MB, NT, ON, QC, SK, YT) Cystidicola stigmatura (AB, BC, EXP, MB, NT, ON, QC, SK) Cystidicola sp. (AB, BC, MB, ON) *Eustrongylides sp. (BC) Hysterothylacium brachyurum (AB) *Nematoda gen. sp. (AB, LB, MB, NT, ON, SK) Philonema agubernaculum (AB, BC, LB, NT) **Philonema oncorhynchi (BC, NS, ON) *Philonema sp. (AB, BC, NT, ON) Pseudocapillaria (Ichthyocapillaria) salvelini (BC, LB, NB, NF, ON, YT) *Raphidascaris acus (AB) *Raphidascaris sp. (AB) Raphidascaris sp. (LB)

Sterliadochona ephemeridarum (LB, ON)
Truttaedacnitis truttae (AB, BC)

Acanthocephala:

Acanthocephala gen. sp. (AB, NT)
Acanthocephalus dirus (ON)
Echinorhynchus gadi (NT)
Echinorhynchus lateralis (LB, ON)
Echinorhynchus leidyi (AB, MB, NT, ON, QC, SK)
Echinorhynchus salmonis (AB, MB, NT, ON)
Echinorhynchus sp. (NT)
Leptorhynchoides thecatus (ON)
Neoechinorhynchus rutili (BC, YT)
Neoechinorhynchus sp. (BC)
Pomphorhynchus bulbocolli (AB)

Annelida:

Piscicola geometra (QC, SK)

Piscicola milneri (AB, NT, ON, QC, YT)

Copepoda:

Ergasilus auritus (AB)
Ergasilus elongatus (ON)
Ergasilus nerkae (AB)
Salmincola californiensis (BC)
Salmincola corpulentus (NT)
Salmincola edwardsii (BC, NB, NT, ON, YT)
Salmincola siscowet (BC, LB, NT, ON, QC, SK)
Salmincola sp. (BC, MB, NT, SK)

Thymallus arcticus (Pallas) Arctic grayling

Monogenea:

Discocotyle sagittata (YT) Gyrodactyloidea gen. sp. (BC) Tetraonchus borealis (BC, SK, YT)

Digenea:

Allocreadium isoporum (YT)
Allocreadium lobatum (YT)
Crepidostomum farionis (BC, NT, YT)
Crepidostomum metoecus (YT)
Crepidostomum sp. (BC)
*Diplostomum spathaceum (YT)
*Diplostomum sp. (BC)
*Tetracotyle sp. (BC, YT)

Cestoidea:

Cyathocephalus sp. (YT)

*Diphyllobothrium sp. (AB, BC, YT)

Eubothrium salvelini (NT, YT)

Proteocephalus longicollis (YT)

*Triaenophorus crassus (AB, MB, NT, SK, YT)

*Triaenophorus nodulosus (NT)

Nematoda:

Cystidicola farionis (YT)
Metabronema sp. (BC)
Nematoda gen. sp. (NT)
Philonema sp. (BC)
Pseudocapillaria (Ichthyocapillaria)
salvelini (YT)
*Raphidascaris acus (YT)
Rhabdochona cascadilla (BC)
Sterliadochona ephemeridarum (BC)

Acanthocephala:

Echinorhynchus salmonis (NT)

Echinorhynchus sp. (YT) Neoechinorhynchus rutili (BC, NT) Neoechinorhynchus tumidus (YT)

Copepoda:

Ergasilus nerkae (BC) Salmincola thymalli (BC, NT, YT)

Salmonidae gen. sp.

Monogenea:

Discocotyle sagittata (AB) Tetraonchus variabilis (ON)

Digenea:

Crepidostomum farionis (AB) *Diplostomum sp. (BC)

Cestoidea:

Cyathocephalus truncatus (AB)
*Diphyllobothrium sp. (AB)
Eubothrium salvelini (AB, ON)
Proteocephalus sp. (AB)
*Triaenophorus nodulosus (AB)

Nematoda:

Cystidicola farionis (AB, ON) Philonema agubernaculum (AB)

Acanthocephala:

Echinorhynchus salmonis (AB) Pomphorhynchus bulbocolli (AB)

Copepoda:

Ergasilus auritus (AB) Ergasilus nerkae (AB)

ORDER PERCOPSIFORMES

FAMILY PERCOPSIDAE - trout perches

Percopsis omiscomaycus (Walbaum) trout-perch

Monogenea:

Cleidodiscus sp. (ON) Gyrodactyoidea gen. sp. (ON) Gyrodactylus sp. (ON) Urocleidus adspectus (MB) Urocleidus baldwini (ON)

Digenea:

Bucephalus sp. (ON)
*Centrovarium lobotes (MB, ON)
Centrovarium lobotes (ON)

*Clinostomum complanatum (ON) Crepidostomum cooperi (MB) Crepidostomum isostomum (ON)

Crepidostomum percopsisi (MB)

Digenea gen. sp. (MB)

*Diplostomum spathaceum (ON)

*Diplostomum spathaceum indistinctum (ON)

*Diplostomum sp. (MB, ON, SK)

*Ichthyocotylurus erraticus (ON)

*Ichthyocotylurus pileatus (ON)

*Ichthyocotylurus platycephalus (ON)

*Neascus sp. (MB, ON)

*Posthodiplostomum minimum (ON)

*Tetracotyle sp. (MB, ON)

*Tylodelphys scheuringi (ON)

Cestoidea:

Bothriocephalus claviceps (ON) Bothriocephalus cuspidatus (ON) Bothriocephalus formosus (ON) Proteocephalus pearsei (ON) *Triaenophorus nodulosus (ON) *Triaenophorus stizostedionis (AB, MB. ON) *Triaenophorus sp. (AB, ON)

Nematoda:

Camallanus oxycephalus (ON) Hysterothylacium brachyurum (ON) **Nematoda gen. sp. (ON) **Raphidascaris acus (MB) Rhabdochona canadensis (MB) Rhabdochona cascadilla (ON) Rhabdochona sp. (ON) Spinitectus gracilis (MB, ON)

Acanthocephala:

Acanthocephalus dirus (ON) Echinorhynchus salmonis (ON) Leptorhynchoides thecatus (ON) Neoechinorhynchus sp. (ON) Pomphorhynchus bulbocolli (ON)

Annelida:

Illinobdella sp. (ON) Myzobdella lugubris (MB) Myzobdella sp. (ON) Piscicola punctata (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus appendiculosus (MB)

Argulus versicolor (ON) Argulus sp. (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus lucioperculum (MB)

ORDER GADIFORMES

FAMILY GADIDAE - cods

Lota lota (Linneaus) burbot

Monogenea:

Gyrodactylus lotae (ON) Gyrodactylus sp. (ON)

Digenea:

Azygia angusticauda (ON, QC) Azygia longa (ON, QC) Bunodera luciopercae (ON) Bunodera sacculata (ON) Crepidostomum cooperi (LB) Crepidostomum farionis (AB, BC, Crepidostomum metoecus (YT) Crepidostomum sp. (BC, ON) *Digenea gen. sp. (MB) Digenea gen. sp. (AB, MB) *Diplostomum baeri bucculentum (BC, MB) *Diplostomum spathaceum (BC, ON, *Diplostomum spathaceum

indistinctum (AB)

*Diplstomum sp. (BC, ON, QC)

Microphallidae gen. sp. (ON)

*Neascus sp. (MB, ON)

- *Posthodiplostomum minimum (BC, ON)
- *Tetracotyle sp. (ON, YT)
- *Tylodelphys scheuringi (AB, BC)

Cestoidea:

Bothriocephalus sp. (BC, ON)

Cyathocephalus truncatus (AB)

- *Diphyllobothriidae gen. sp. (MB)
- *Diphyllobothrium dendriticum (BC, ON, QC)
- *Diphyllobothrium latum (MB, QC)
- *Diphyllobothrium sp. (BC, MB, NT, ON, QC, YT)

Eubothrium crassum (ON)

Eubothrium rugosum (AB, BC, MB, NT, ON)

Eubothrium sp. (MB)

*Ligula sp. (AB)

Proteocephalidae gen. sp. (AB)

Proteocephalus pearsei (ON)

Proteocephalus sp. (AB, BC, LB, NB, ON, QC)

Triaenophorus crassus (ON)

*Triaenophorus nodulosus (AB, MB, ON)

Triaenophorus nodulosus (YT)

Nematoda:

Camallanus oxycephalus (ON)

Cucullanellus cotylophora (ON)

*Eustrongylides sp. (BC)

Haplonema hamulatum (AB, BC, ON, YT)

Haplonema sp. (AB, LB)

- *Hysterothylacium brachyurum (ON)
- **Nematoda gen. sp. (AB, MB, NT)

Pseudocapillaria (Pseudocapillaria)

tomentosa (ON)

*Raphidascaris acus (ON)

Raphidascaris acus (ON, QC)

Rhabdochona cascadilla (ON)

Spinitectus gracilis (ON)

Acanthocephala:

Acanthocephala gen. sp. (MB)

Acanthocephalus dirus (ON)

Echinorhynchus leidyi (MB, NT, ON)

Echinorhynchus salmonis (AB, BC,

MB, NT, ON)

Echinorhynchus sp. (ON)

Leptorhynchoides thecatus (ON)

Neoechinorhynchus cylindratus (ON) Neoechinorhynchus rutili (BC, ON,

YT)

Neoechinorhynchus saginatus (BC)

Neoechinorhynchus salmonis (BC)

Pomphorhynchus bulbocolli (AB, BC, ON)

Annelida:

Cystobranchus mammilatus (NT)

Cystobranchus verrilli (AB, ON)

Myzobdella lugubris (ON)

Piscicola milneri (YT)
Piscicola punctata (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Copepoda:

Ergasilus caeruleus (BC, ON)

Ergasilus celestis (ON)

Ergasilus nerkae (BC)

Salmincola lotae (NT)

ORDER GASTEROSTEIFORMES

FAMILY GASTEROSTEIDAE - sticklebacks

Culaea inconstans (Kirtland) brook stickleback

Monogenea:

Dactylogyrus eucalius (ON)
Dactylogyrus sp. (ON)
Gyrodactyloidea gen. sp. (BC, ON)
Gyrodactylus eucaliae (ON)
Gyrodactylus sp. (ON)
Octomacrum lanceatum (ON)

Digenea:

- *Apatemon gracilis (BC, QC)
 Bunodera eucaliae (BC, ON, QC)
 *Clinostomum complanatum (ON)
 Culaeatrema inconstans (ON)
 Digenea gen. sp. (ON)
- *Diplostomum scudderi (ON)
- *Diplostomum spathaceum (ON)
- *Diplostomum sp. (ON)
- *Neascus sp. (ON)
- *Posthodiplostomum minimum (BC, ON)
- *Tetracotyle sp. (BC, ON)

Cestoidea:

- *Diphyllobothrium sp. (ON)
- *Ligula intestinalis (ON)
- *Ligula sp. (AB, MB)
- *Proteocephalus ambloplitis (ON) Proteocephalus pugetensis (ON) Proteocephalus stizostethi (ON)

Proteocephalus sp. (ON)

- *Schistocephalus solidus (AB, MB, ON)
- *Schistocephalus sp. (AB, BC)

Nematoda:

Camallanus oxycephalus (ON)

- *Contracaecum sp. (MB)
- *Eustrongylides tubifex (ON)
- *Eustrongylides sp. (ON)
- *Hysterothylacium brachyurum (ON)
- **Hysterothylacium sp. (ON)
- **Nematoda gen. sp. (ON)
- *Paracuaria adunca (ON)
- Rhabdochona cascadilla (ON)
- *Spiroxys sp. (ON)

Acanthocephala:

Acanthocephalus dirus (ON) Leptorhynchoides thecatus (ON) Neoechinorhynchus pungitius (ON) Neoechinorhynchus rutili (ON) Neoechinorhynchus sp. (ON)

Mollusca:

- *Anodontoides ferrussacinea (ON)
- *Lasmigona compressa (ON)

Branchiura:

Argulus catostomi (ON)

Copepoda:

Ergasilus versicolor (ON) Ergasilus sp. (ON) Lernaea cyprinacea (ON)

Gasterosteus aculeatus Linnaeus threespine stickleback

Monogenea:

Dactylogyrus sp. (BC) Gyrodactyloidea gen. sp. (BC) Gyrodactylus alexanderi (BC, NS) Gyrodactylus avalonia (LB, NB, NF, NT. OC) Gyrodactylus canadensis (LB, NB, NF, NS, NT, QC) Gyrodactylus sp. (ON)

Digenea:

*Apatemon gracilis (BC)

*Apophallus brevis (QC)

Bunodera eucaliae (BC, ON)

Bunodera luciopercae (LB, NF)

Bunodera mediovitellata (BC)

Crepidostomum cooperi (NF)

Crepidostomum farionis (NF)

*Digenea gen. sp. (BC)

*Diplostomum scudderi (BC)

*Diplostomum spathaceum (BC, LB, NF, ON)

*Diplostomum sp. (BC, ON, QC)

*Posthodiplostomum minimum (BC)

*Tetracotyle sp. (BC, NF)

Cestoidea:

Bothriocephalidae gen. sp. (QC) Bothriocephalus sp. (AB, NF) Cestoidea gen. sp. (NF) Cyathocephalus truncatus (BC) *Diphyllobothrium dendriticum (NS) *Diphyllobothrium ditremum (BC,

CA, NS, QC)

*Diphyllobothrium sp. (BC, NT)

*Ligula intestinalis (NB, ON)

Proteocephalus filicollis (NF) Proteocephalus pugetensis (BC, ON) Proteocephalus sp. (AB, BC, LB, NF, NT) *Schistocephalus solidus (AB, BC, LB, NB, NF, NT, ON, QC)

Nematoda:

*Contracaecum sp. (LB, NF, NS)

*Schistocephalus sp. (BC, QC)

*Cosmocephalus obvelatus (NS, ON)

*Eustrongylides sp. (BC, QC)

**Hysterothylacium sp. (ON)

*Paracuaria adunca (NB, NS, ON) Philonema agubernaculum (QC)

Acanthocephala:

Echinorhynchus lateralis (LB, NF) Echinorhynchus salmonis (CA, NF, ON) Neoechinorhynchus rutili (BC, LB, NS, ON) Neoechinorhynchus sp. (NT)

Annelida:

Dessorobdella phalera (EXP, ON)

Mollusca:

*Anodonta cataracta (NF)

*Anodonta cataracta cataracta (NS)

*Anodonta cataracta fragilis (NS)

*Anodonta implicata (NS)

*Anodonta sp. (NS)

*Elliptio complanata (NS)

*Lampsilis radiata radiata (NS)

*Unionidae gen. sp. (BC, ON)

Branchiura:

Argulus stizostethi (EXP, NF, QC)

Copepoda:

Copepoda gen. sp. (BC)
Ergasilus auritus (BC, LB, NF)
Ergasilus nerkae (BC)
Ergasilus turgidus (BC)
Ergasilus sp. (ON)
Salmincola sp. (BC)
Therestina gasterostei (BC, LB, NF, QC)

Pungitius pungitius (Linnaeus)
ninespine stickleback

Monogenea:

Gyrodactylus avalonia (LB, NB, NF, NS, ON, QC)
Gyrodactylus canadensis (LB, NB, NF, NS, NT, QC)
Gyrodactylus eucaliae (ON)
Gyrodactylus stephanus (NF)
Gyrodactylus sp. (AB, NT, ON)

Digenea:

Bunodera eucaliae (ON)
Bunodera luciopercae (AB, NF)
*Diplostomum spathaceum (AB, NF, NT, ON)
*Ichthyocotylurus erraticus (AB)

*Apatemon gracilis (AB)

*Tetracotyle sp. (ON)

Cestoidea:

Bothriocephalidae gen. sp. (QC)
*Diphyllobothrium dendriticum (NS, NT, QC)

*Diphyllobothrium ditremum (NS, NT)

*Diphyllobothrium sp. (LB, NF) Eubothrium sp. (AB)

Proteocephalus filicollis (AB)

Proteocephalus sp. (LB, NF, NT, ON)

*Schistocephalus pungitii (NS)

*Schistocephalus solidus (AB, NS, NT, ON, QC)

*Schistocephalus sp. (MB, NB, NT)

*Triaenophorus nodulosus (AB)

Nematoda:

*Contracaecum sp. (MB, NS)

*Cosmocephalus obvelatus (NS)

*Paracuaria adunca (NS)

*Raphidascaris acus (AB)

Acanthocephala:

Acanthocephalus dirus (ON)
Echinorhynchus lateralis (NF)
Echinorhynchus salmonis (AB)
Leptorhynchoides thecatus (ON)
Neoechinorhynchus pungitius (ON)
Neoechinorhynchus rutili (BC, MB, NF, NT, ON)
Neoechinorhynchus venustus (LB, QC)
Pomphorhynchus bulbocolli (AB)

Mollusca:

*Anodonta sp. (NS)

*Unionidae gen. sp. (ON)

Copepoda:

Ergasilus auritus (AB) Ergasilus sp. (MB, ON) Therestina gasterostei (LB, NF, NS, QC)

ORDER SCORPAENIFORMES

FAMILY COTTIDAE - sculpins

Cottus cognatus Richardson slimy sculpin

Monogenea:

Dactylogyrus buddi (ON, YT) Gyrodactyloidea gen. sp. (BC) Gyrodactylus bairdi (ON, YT)

Digenea:

Crepidostomum cooperi (LB)
Crepidostomum farionis (BC)
Crepidostomum metoecus (YT)
Crepidostomum sp. (ON)
Digenea gen. sp. (BC, MB)
*Diplostomum spathaceum (YT)
*Diplostomum sp. (BC)
*Heterophyidae gen. sp. (YT)

Cestoidea:

*Neascus sp. (YT)

*Tetracotyle sp. (BC, ON)

*Ligula intestinalis (BC)
Proteoc2phalus longicollis (YT)
*Schistocephalus solidus (MB, ON, YT)
*Triggnonhorus nodulosus (MB, VT)

*Triaenophorus nodulosus (MB, YT)
*Triaenophorus stizostedionis (MB)

Nematoda:

*Eustrongylides sp. (BC) Haplonema sp. (BC)

*Nematoda gen. sp. (AB)

*Raphidascaris acus (YT) Rhabdochona cotti (BC, ON) Rhabdochona sp. (ON) Spinitectus gracilis (ON)

Acanthocephala:

Acanthocephala dirus (ON) Neoechinorhynchus rutili (YT) Neoechinorhynchus tumidus (YT)

Cottus ricei (Nelson) spoonhead sculpin

Monogenea:

Dactylogyrus buddi (ON)

Digenea:

*Diplostomum spathaceum (ON)

*Diplostomum sp. (ON)

*Tetracotyle sp. (ON)

Cestoidea:

Cyathocephalus truncatus (ON) Proteocephalus pearsei (ON)

Acanthocephala:

Acanthocephalus dirus (ON) Neoechinorhynchus rutili (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Copepoda:

Ergasilus sp. (ON)

Cottus sp.

Cestoidea:

*Schistocephalus solidus (BC, QC)

Nematoda:

*Cosmocephalus obvelatus (ON)

*Paracuaria adunca (ON)

Rhabdochona canadensis (AB)

Myoxocephalus thompsoni (Girard) deepwater sculpin

Digenea:

*Diplostomum sp. (ON)

Cestoidea:

Bothriocephalus sp. (ON)
Cyathocephalus truncatus (ON)

Nematoda:

Cystidicola stigmatura (ON) *Spirurinae gen. sp. (ON)

Acanthocephala:

Echinorhynchus salmonis (ON)

ORDER PERCIFORMES

FAMILY PERCIDAE - perches

Etheostoma exile (Girard) Iowa darter

Monogenea:

Aethycteron sp. (ON)
Dactylogyrus sp. (ON)
Gyrodactylus etheostomae (ON)
Gyrodactylus sp. (ON)
Urocleidus adspectus (ON)
Urocleidus sp. (ON)

Digenea:

Allocreadium sp. (ON)
Alloglossidium geminum (ON)
*Apophallus brevis (ON)
Azygia angusticauda (ON)
*Clinostomum complanatum (ON)
Crepidostomum cooperi (ON)
Crepidostomum isostomum (ON)
*Diplostomum spathaceum (ON)
*Diplostomum sp. (ON)
*Neascus sp. (ON)
Plagioporus sp. (ON)
*Posthodiplostomum minimum (ON)
*Strigeidae gen. sp. (ON)
*Tetracotyle sp. (ON)
*Uvulifer ambloplitis (ON)

Cestoidea:

Bothriocephalus cuspidatus (ON) Bothriocephalus formosus (ON) Corallobothrium sp. (ON) *Hymenolepis sp. (ON)

Nematoda:

Camallanus oxycephalus (ON)
*Contracaecum sp. (ON)
Hysterothylacium brachyurum (ON)
**Nematoda gen. sp. (ON)
*Raphidascaris acus (ON)
Rhabdochona cascadilla (ON)

Rhabdochona sp. (ON)

Acanthocephala:

Echinorhynchus sp. (ON) Leptorhynchoides thecatus (ON)

Annelida:

Illinobdella sp. *Myzobdella* sp. (ON)

Mollusca:

*Anodontoides ferrussacinea (ON)

Branchiura:

Argulus catostomi (ON)

Perca flavescens (Mitchill) yellow perch

Monogenea:

Cleidodiscus sp. (ON)
Gyrodactylidae gen. sp. (ON)
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Urocleidus adspectus (AB, EXP, MB, NB, ON)

Digenea:

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Bunodera sacculata (MB, ON, QC)

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*Clinostomum complanatum (MB, ON, QC)

*Clinostomum sp. (MB, NB)

*Crassiphialia bulboglossa (ON, QC) Crepidostomum cooperi (MB, ON, QC)

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Crepidostomum farionis (MB, ON)

Crepidostomum isostomum (AB, QC)

Crepidostomum sp. (ON)

Crepidostomum funduli (MB)

Cryptogonimus chili (ON)

**Digenea gen. sp. (MB, ON)

*Diplostomum adamsi (AB, ON)

*Diplostomum scudderi (ON)

*Diplostomum spathaceum (ON)

*Diplostomum spathaceum huronense (ON)

*Diplostomum spathaceum indistinctum (ON)

*Diplostomum sp. (AB, MB, ON)

*Ichthyocotylurus erraticus (ON)

*Ichthyocotylurus pileatus (AB, MB, ON)

Leuceruthrus micropteri (ON)

Lissorchis kritskyi (MB)

*Metorchis conjunctus (MB)

Microphallidae gen. sp. (ON)

Microphallus opacus (ON, QC)

- *Neascus pyriformis (ON)
- *Neascus sp. (AB, BC, MB, ON)
- *Ornithodiplostomum ptychocheilus (MB)

Phyllodistomum superbum (ON, QC)

Phyllodistomum sp. (ON)

- *Posthodiplostomum minimum (ON)
- *Posthodiplostomum minimum centrarchi (ON)

Prosorhynchoides pusilla (MB)

Ptychogonimus fontanus (QC)

*Rhipidocotyle papillosa (ON)

Rhipidocotyle papillosa (MB)

Sanguinicola occidentalis (ON)

- *Strigeidae gen. sp. (MB, NB, ON)
- *Tetracotyle sp. (AB, MB, ON)
- *Tylodelphys scheuringi (AB, ON)
- *Uvulifer ambloplitis (ON)

Cestoidea:

Bothriocephalus cuspidatus (AB, HBD, MB, ON)

- *Bothriocephalus sp. (AB, MB, ON)
- *Cestoidea gen. sp. (MB, QC)

Corallobothrium sp. (ON)

Cyathocephalus truncatus (NT, ON, QC)

- *Diphyllobothrium latum (AB, MB, QC)
- *Diphyllobothrium sp. (AB, QC) Eubothrium sp. (AB)
- *Ligula intestinalis (AB, BC, MB, NB, ON, QC, SK)
- *Ligula sp. (AB)
- **Proteocephalus ambloplitis (ON) Proteocephalus pearsei (MB, ON)

Proteocephalus pinguis (ON, QC)

- *Proteocephalus stizostethi (ON)
- *Proteocephalus sp. (AB)

Proteocephalus sp. (AB, BC, LB, MB, NT, ON, QC)

- *Schistocephalus solidus (MB, ON)
 - *Schistocephalus sp. (AB)
 - *Triaenophorus crassus (HBD)
 - *Triaenophorus nodulosus (AB, CA, MB, ON)
 - *Triaenophorus sp. (HBD, MB, ON)

Nematoda:

Camallanus oxycephalus (ON)

Camallanus sp. (ON)

*Contracaecum spiculigerum (AB, BC, ON)

Contracaecum sp. (MB, ON, QC)

Cucullanellus cotylophora (ON, QC)

Cucullanus sp. (ON)

- *Eustrongylides tubifex (ON)
- *Eustrongylides sp. (ON)
- **Hysterothylacium brachyurum (ON)
- **Nematoda gen. sp. (AB, MB, ON)
- **Philometra cylindracea (ON)
- *Raphidascaris acus (AB, BC, EXP, MB, ON)

Raphidascaris acus (AB, ON, QC)

**Raphidascaris sp. (MB, ON, QC)

Rhabdochona cascadilla (ON)

Rhabdochona ovifilamenta (ON)

Rhabdochona sp. (ON)

Spinitectus carolini (ON)

Spinitectus gracilis (MB, ON)

Spinitectus sp. (MB, ON)

- *Spiroxys contortus (ON)
- *Spiroxys sp. (ON)

Acanthocephala:

Acanthocephala gen. sp. (ON)

Acanthocephala dirus (ON)

Echinorhynchus lateralis (QC)

Echinorhynchus salmonis (ON)

Leptorhynchoides thecatus (AB, ON)

Neoechinorhynchus crassus (MB)
Neoechinorhynchus cylindratus (MB, ON)
Neoechinorhynchus pungitius (ON)
Neoechinorhynchus rutili (MB, ON)
Neoechinorhynchus tenellus (ON)
Neoechinorhynchus venustus (ON)
Neoechinorhynchus sp. (ON)
Pomphorhynchus bulbocolli (AB, MB, ON)

Annelida:

Actinobdella sp. (QC)
Desserobdella phalera (EXP, ON)
Illinobdella sp. (ON, QC)
Myzobdella lugubris (MB, ON, SK)
Myzobdella sp. (ON, QC)
Piscicola geometra (QC, SK)
Piscicola punctata (ON)
Piscicola sp. (ON)
Placobdella montifera (MB)
Placobdella parasitica (ON)

Mollusca:

- *Anodonta grandis simpsonia (AB)
- *Anodonta sp. (ON)
- *Elliptio complanata (ON)
- *Lampsilis radiata (ON)
- *Lampsilis sp. (ON)
- *Unionidae gen. sp. (AB, MB, ON)

Brachiura:

Argulus stizostethi (NS, ON)

Copepoda:

Achtheres pimelodi (ON)

Ergasilus caeruleus (AB, ON)

Ergasilus centrarchidarum (ON)

Ergasilus luciopercarum (MB, ON) Ergasilus sp. (MB)

Arachnoidea:

*Hydrachna sp. (ON)

Percina caprodes (Rafinesque) logperch

Monogenea:

Aethycteron malleus (ON) Gyrodactyloidea gen. sp. (ON) Gyrodactylus sp. (ON)

Digenea:

Allopodocotyle boleosomi (ON) Centrovarium lobotes (MB)

*Clinostomum complanatum (ON) Crepidostomum isostomum (ON)

*Diplostomum sp. (MB, ON, SK) Leuceruthrus micropteri (ON)

*Neascus sp. (ON)

*Posthodiplostomum cuticola (ON)

*Posthodiplostomum minimum (ON)

*Strigeidae gen. sp. (ON)

*Tetracotyle sp. (ON)

*Tylodelphys scheuringi (ON)

Cestoidea:

Bothriocephalus cuspidatus (ON)
Bothriocephalus formosus (ON)
Proteocephalus pearsei (ON)
**Proteocephalus stizostethi (ON)

Nematoda:

Camallanus oxycephalus (ON)

- *Contracaecum sp. (ON)
- **Nematoda gen. sp. (ON)
- *Raphidascaris sp. (MB)

Spinitectus gracilis (MB, ON)

Acanthocephala:

Echinorhynchus sp. (ON)
Leptorhynchoides thecatus (ON)
Pomphorhynchus bulbocolli (MB,
ON)

Annelida:

Myzobdella lugubris (ON) Piscicola punctata (ON) Piscicolaria reducta (ON)

Copepoda:

Ergasilus caeruleus (ON)

Stizostedion canadense (Smith) sauger

Monogenea:

Urocleidus aculeatus (ON)

Digenea:

Centrovarium lobotes (ON)

*Clinostomum complanatum (ON) Crepidostomum cooperi (MB)

Creptotrema funduli (MB)

- *Diplostomum sp. (ON)
- *Ichthyocotylurus platycephalus (ON)
- *Neascus sp. (ON)

Phyllodistomum superbum (ON)

Prosorhynchoides pusilla (ON)

*Tetracotyle sp. (ON)

Cestoidea:

Bothriocephalus claviceps (ON) Bothriocephalus cuspidatus (HBD, MB, ON)

Cestoidea gen. sp. (MB)

- *Diphyllobothrium latum (MB, QC)
- *Proteocephalus ambloplitis (ON) Proteocephalus luciopercae (MB,

SK)
Proteocephalus stizostethi (ON)

*Triaenophorus crassus (AB)

Triaenophorus crassus (MB)

- *Triaenophorus nodulosus (ON)
- **Triaenophorus sp. (ON)

Nematoda:

Camallanus oxycephalus (ON)

- *Eustrongylides sp. (ON)
- **Hysterothylacium brachyurum (ON)
- *Raphidascaris sp. (MB)

Acanthocephala:

Acanthocephala gen. sp. (ON)

Echinorhynchus salmonis (ON)

Neoechinorhynchus cylindratus (ON)

Neoechinorhynchus tenellus (ON)

Neoechinorhynchus sp. (ON)

Annelida:

Myzobdella lugubris (ON) Piscicola punctata (ON)

Mollusca:

*Unionidae gen. sp. (ON)

Branchiura:

Argulus appendiculosus (ON)

Copepoda:

Ergasilus caeruleus (ON) Ergasilus centrarchidarum (ON) Ergasilus luciopercarum (ON)

Stizostedion vitreum (Mitchill) walleye

Monogenea:

Cleidodiscus sp. (ON)
Gyrodactyloidea gen. sp. (ON)
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Urocleidus adspectus (MB)

Digenea:

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*Ichthyocotylurus platycephalus (ON)

*Neascus sp. (MB, ON)

*Ornithodiplostomum ptychocheilus
(MB)

Phyllodistomum superbum (ON)

*Posthodiplostomum minimum (ON)

Prosorhynchoides pusilla (MB, ON, QC)

Rhipidocotyle papillosa (MB)

Sanguinicola occidentalis (ON)

*Tetracotyle sp. (AB, ON)

*Tylodelphys scheuringi (ON)

*Uvulifer ambloplitis (ON)

Cestoidea:

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Nematoda:

Camallanus oxycephalus (ON)

*Contracaecum sp. (QC)

Cucullanus cotylophora (ON)

- *Eustrongylides tubifex (ON)
- *Eustrongylides sp. (ON)
- **Hysterothylacium brachyurum (ON)
- *Nematoda gen. sp. (AB, MB, ON)

Philonema cylindracea (ON)

*Raphidascaris acus (MB)

Raphidascaris acus (MB, ON, QC)

*Raphidascaris sp. (MB, ON)

Rhabdochona canadensis (AB)

Spinitectus gracilis (ON)

Spinitectus sp. (MB, ON)

Acanthocephala:

Acanthocephala gen. sp. (ON)

Echinorhynchus salmonis (AB, ON)

Echinorhynchus sp. (ON)

Leptorhynchoides thecatus (ON)

Neoechinorhynchus crassus (MB)

Neoechinorhynchus cylindratus (MB, ON)

Neoechinorhynchus rutili (ON)

Neoechinorhynchus strigosus (MB)

Neoechinorhynchus tenellus (MB, ON)

Neoechinorhynchus sp. (MB)

Pomphorhynchus sp. (MB)

Annelida:

Desserobdella phalera (EXP, ON)

Macrobdella decora (SK)

Myzobdella lugubris (AB, MB, ON)

Percymoorensis marmorata (SK)

Piscicola geometra (SK)

Piscicola punctata (ON, SK)

Piscicola sp. (ON)

Placobdella montifera (MB)

Mollusca:

*Unionidae gen. sp. (MB, ON)

Branchiura:

Argulus appendiculosus (MB, ON) Argulus stizostethi (MB, ON, SK) Argulus versicolor (ON)

Copepoda:

Copepoda gen. sp. (ON)

Ergasilus caeruleus (ON)

Ergasilus centrarchidarum (ON)

Ergasilus luciopercarum (MB, ON, QC)

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**Camallanus oxycephalus

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Hysterothylacium brachyurum)

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Hysterothylacium aduncum)

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*Contracaecum spiculigerum

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*Cosmocephalus obvelatus

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Haplonema hamulatum)

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Cotylurus communis (see: Ichthyocotylurus

platycephalus)

Cotylurus erraticus (see: Ichthyocotylurus

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Crepidostomum auriculatum

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Crepidostomum farionis

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Carpiodes cyprinus
Catostomidae

Catostomus catostomus Catostomus commersoni Catostomus macrocheilus Catostomus platyrhynchus

Catostomus sp.

Cisco Cods

Coho salmon
Coregonus artedii
Coregonus clupeaformis

Coregonus sp.

Coregonus zenithicus

Cottidae

Cottus cognatus Cottus ricei Cottus sp.

Couesius plumbeus Culaea inconstans Cuttroat trout Cyprinidae

Deepwater sculpin Dolly Varden

Emerald shiner Esocidae Esox lucius Etheostoma exile

Fathead minnow Finescale dace Flathead chub

Gadidae Gasterosteidae Gasterosteus aculeatus Goldeye

Hiodon alosoides
Hiodon tergisus
Hiodontidae
Hybognathus hankinsoni

Ictaluridae Iowa darter

Lake charr
Lake chub
Lake herring
Lake sturgeon
Lake whitefish
Lampetra japonica
Lampreys

Largescale sucker Logperch Longnose dace Longnose sucker Lota lota

Margariscus margarita

Minnows
Mooneye
Mooneyes
Mountain sucker
Mountain whitefish
Moxostoma anisurum
Moxostoma macrolepidotum
Myoxocephalus thompsoni

Ninespine stickleback

Northern redbelly dace Northern pike Northern squawfish Notropis atherinoides Notropis hudsonius Noturus flavus

Oncorhynchus clarki Oncorhynchus kisutch Oncorhynchus mykiss

Pearl dace

Perca flavescens
Perches
Percidae
Percina caprodes
Percopsidae
Percopsis omiscomaycus
Petromyzontidae
Phoxinus eos
Phoxinus neogaeus

Pikes
Pimephales promelas
Platygobio gracilis
Prosopium coulteri
Prosopium cylindraceum
Prosopium williamsoni
Prosopium sp.
Ptychocheilus oregonensis

Pungitius pungitius
Pygmy whitefish

Quillback

Rainbow trout
Redside shine
Rhinichthys cataractae
Richardsonius balteatus
Round whitefish

Salmo trutta Salmonidae

Salmonidae gen. sp. Salvelinus confluentus Salvelinus fontinalis Salvelinus fontinalis X Salvelinus namaycush Salvelinus malma Salvelinus namaycush Sculpins Sauger Shorthead redhorse Shortiaw cisco Silver redhorse Slimy sculpin Splake Spoonhead sculpin Spottail shiner Sticklebacks Stizostedion canadense Stizostedion vitreum Stonecats

Threespine stickleback
Thymallus arcticus
Trout-perch
Trout-perches
Trouts

White sucker Walleye

Suckers

Yellow perch

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